CDX-415RF

SERVICE MANUAL

US Model

- CDX-415RF is almost same as EXCD-3RF US model.
  The difference parts from EXCD-3RF US model is described in this service manual.
  Please refer to CDX-505RF/EXCD-3RF service manual (9-925-526-□□) previously issued for the other informations.

• DIFFERENCE PARTS LIST

Page	EXCD-3RF US model			CDX-415RF		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
35	7	3-010-098-41	PANEL, FRONT (BLACK) (EXCD-3RF)	7	3-010-098-91	PANEL, FRONT
45		3-859-393-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (EXCD-3RF)		3-861-670-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)
		3-859-394-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (EXCD-3RF)		3-861-671-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH)

COMPACT DISC CHANGER SYSTEM

SONY®

MICROFILM

9-925-697-11

Sony Corporation
Personal & Mobile Communication Company

97L0519-1D
Printed in Japan © 1997. 12
Published by Quality Assurance Dept.

CDX-505RF/EXCD-3RF

SERVICE MANUAL

Ver 1.1 2001.08

US Model
Canadian Model
CDX-505RF/EXCD-3RF
AEP Model
UK Model
E Model
CDX-505RF

Photo: CDX-505RF

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-250A-137
Optical Pick-up Name	KSS-521A/J2RP

SPECIFICATIONS

CD changer

System: Compact disc digital audio system

Laser Diode Properties
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: Continuous
- Laser out-put Power: Less than 44.6 µW*
- * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response: 10-20,000 Hz

Wow and flutter: Below than the measurable limit

Signal-to-noise ratio: 94 dB

Outputs terminals: BUS control output terminal (8 pin)
Analog audio output terminal (RCA pin)

Current drain: 800 mA (at playback)
800 mA (at disc loading/ejecting)

Operating temperature: –10 ºC to +55 ºC (14 ºF to 131 ºF)

Dimensions: Approx. 262 × 90 × 181.5 mm ($12\ ^1/_8 \times 3\ ^5/_8 \times 7\ ^1/_8$ in.) (w/h/d)

Mass: Approx. 2.1 kg (4 lb. 10 oz.)

Hideaway unit / Wired remote (RM-X57) (CDX-505RF) / Wired remote (RM-X64) (EXCD-3RF) / Wireless remote (RM-X58) (CDX-505RF ONLY)

Frequency: 88.3 MHz/88.5 MHz/
88.7 MHz/88.9 MHz/
89.1 MHz/89.3 MHz/
89.5 MHz/89.7 MHz/
89.9 MHz/ (switchable)

Dimension:
Hideaway unit :
Approx. 124.8 × 30.0 × 99.8 mm ($5 \times 1\ ^3/_{16} \times 4$ in.) (w/h/d)
Wired remote:
Approx. 148 × 30 × 15 mm ($5\ ^7/_8 \times 1\ ^3/_{16} \times\ ^9/_{32}$ in.) (w/h/d)
Wireless remote:
Approx. 38.4 × 6.4 × 84.4 mm ($1\ ^9/_{16} \times\ ^9/_{32} \times 3\ ^3/_8$ in.) (w/h/d)

Mass:
Hideaway unit:
Approx. 330 g (11.64 oz.)
Wired remote:
Approx. 120 g (4.2 oz.)
Wireless remote:
Approx. 20 g (0.7 oz.)

Supplied accessories

Disc magazine (1)
Parts for installation and connections (1 set)
Lithium battery (CR2025) (1)

Design and specifications subject to change without notice.

COMPACT DISC CHANGER SYSTEM

9-925-526-12
2001H0500-1
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Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY®

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SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Laser Diode Properites
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 µW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

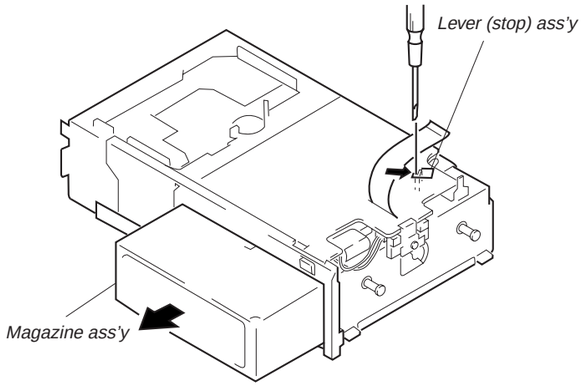
This section is extracted from CDX-505RF's instruction manual.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (LOWER) assembly beforehand

1) Press the lever (stop) assy to arrow direction.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Discard used batteries according to the manufacturer's instructions.

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

ADVARSEL
Eksplosjonsfare ved feilaktig skifte av batteri.
Benytt samme batteritype eller en tilsvarende type
anbefalt av apparatfabrikanten.
Brukte batterier kasseres i henhold til fabrikantens
instruksjoner.

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som
rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

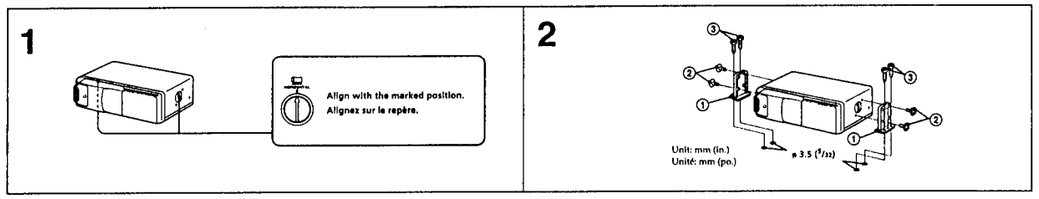
VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

Installation

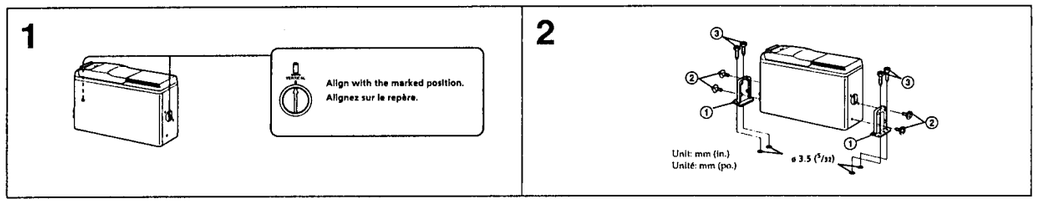
How to install the CD changer

When you install the CD changer, be careful not to damage wiring or equipment on the other side of the mounting surface.

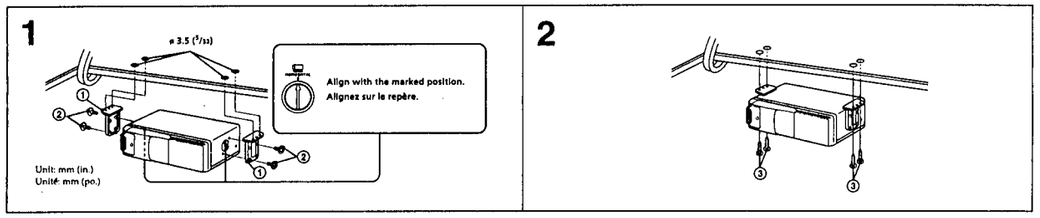
Horizontal installation



Vertical installation



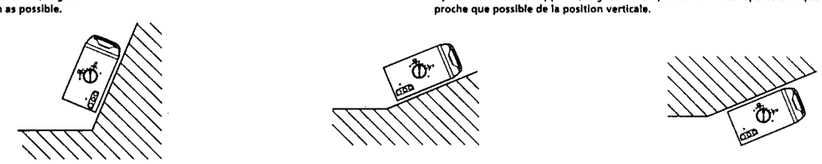
Suspended installation



When the unit is to be installed under the rear tray or in the trunk, observe the following.
- Choose the mounting location carefully so the unit can be installed horizontally.
- Make sure the unit does not hinder the movement of the trunk door.

Inclined installation

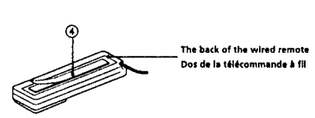
After installing the unit, align the dials with one of the marks so the arrow comes as close to a vertical position as possible.



Note
Be sure to align the left and right dials with the same mark.

Installing the wired remote

Use the supplied double-sided adhesive tape ④, and mount the wired remote in a suitable location where it will not interfere with your driving.



Installation

Installation du changeur de CD

Quand vous installez le changeur de CD, veillez à ne pas endommager les câbles ou les instruments qui se trouvent de l'autre côté.

Installation horizontale

Installation verticale

Installation suspendue

Si vous comptez installer le changeur de CD sous la plage arrière par exemple ou dans le coffre, prenez les précautions suivantes.
- Choisissez soigneusement l'emplacement pour que le changeur soit à l'horizontale.
- Vérifiez que le changeur ne gêne pas le ressort du capot, entre autres.

Installation inclinée

Après avoir installé l'appareil, alignez les disques sur l'un des repères afin que la flèche soit aussi proche que possible de la position verticale.

Remarque
Veillez à aligner les disques gauche et droite sur le même repère.

Installation de la télécommande à fil

Utilisez la bande à double face adhésive fournie ④ pour installer la télécommande à fil dans un endroit qui ne risque pas de gêner la conduite.

Connections

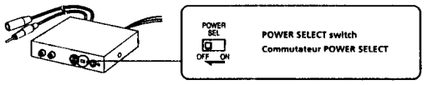
Caution

- This system is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is powered when the ignition switch is in the accessory position.
- **Run all ground wires to a common ground point.**
- **Press RESET on the hideaway unit after completing the connections.**
- The use of optical instruments with this product will increase eye hazard.

Installing the system in a car without an accessory switch position

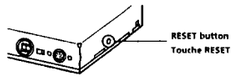
POWER SELECT switch setting

When the unit is used in a car without an accessory position on the ignition switch, set the POWER SELECT switch on the side of the hideaway unit to OFF.
This causes the display to go out when you turn the ignition OFF. After changing the POWER SELECT switch position, be sure to press RESET on the hideaway unit with a ball-point pen etc.

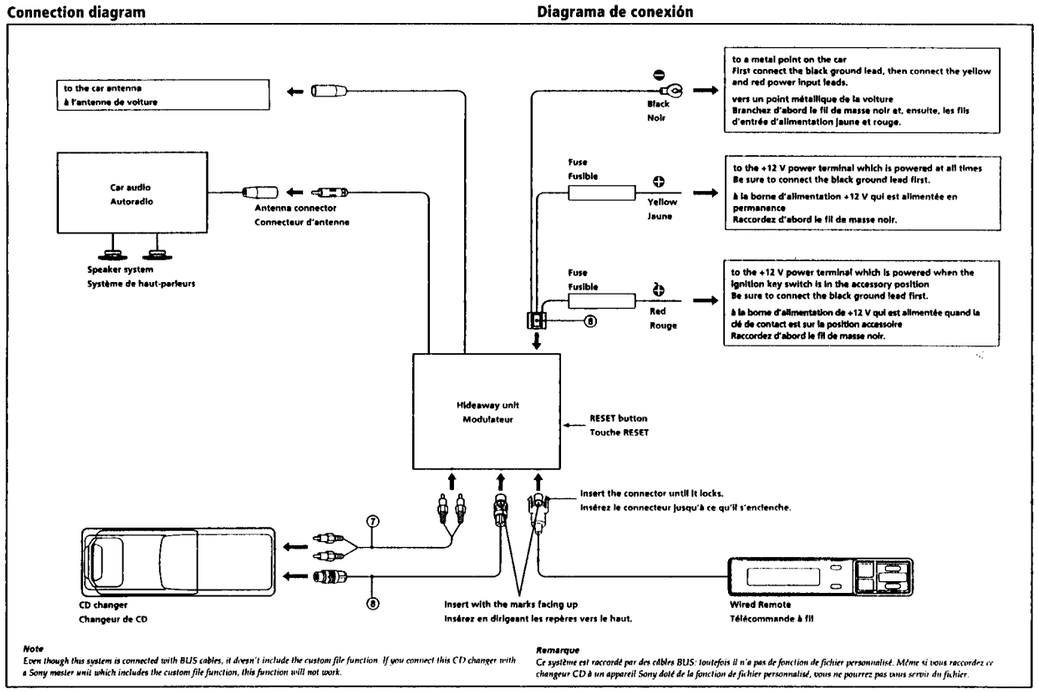


Reset button

After the installation and connections are complet, after the batteries have been changed, or when the POWER SELECT switch has been changed, be sure to press RESET with a ball-point pen, etc.



Connection diagram


to the car antenna
à l'antenne de voiture
Car audio
Autoradio
Antenna connector
Connecteur d'antenne
Speaker system
Système de haut-parleurs
Black
Noir
to a metal point on the car
First connect the black ground lead, then connect the yellow and red power input leads.
vers un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
Fuse
Fusible
Yellow
Jaune
to the +12 V power terminal which is powered at all times
Be sure to connect the black ground lead first.
à la borne d'alimentation +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.
Fuse
Fusible
Red
Rouge
to the +12 V power terminal which is powered when the ignition key switch is in the accessory position
Be sure to connect the black ground lead first.
à la borne d'alimentation de +12 V qui est alimentée quand la clé de contact est sur la position accessoire
Raccordez d'abord le fil de masse noir.
Hideaway unit
Modulateur
RESET button
Touche RESET
Insert the connector until it locks.
Insérez le connecteur jusqu'à ce qu'il s'enclenche.
CD changer
Changeur de CD
Insert with the marks facing up
Insérez en dirigeant les repères vers le haut.
Wired Remote
Télécommande à fil

Note
Even though this system is connected with BUS cables, it doesn't include the custom file function. If you connect this CD changer with a Sony mester unit which includes the custom file function, this function will not work.

Fuse replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction.

Warning

Use a fuse with the specified amperage rating. Use of a higher amperage fuse may cause serious damage.

Connexions

Précautions

- Ce système est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Avant d'effectuer les raccordements, débranchez la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Branchez les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veillez à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoire.
- **Rassemblez tous les fils de terre en un point de masse commun.**
- **Quand vous avez terminé les connexions, appuyez sur la touche RESET du modulateur.**

Installation du système dans une voiture sans position accessoire

Réglage du commutateur POWER SELECT

Si vous utilisez cet appareil sur un véhicule dont le contacteur d'allumage est dépourvu de toute position accessoire, amenez le commutateur de POWER SELECT monté sur le flanc du modulateur sur la position OFF. Ainsi, l'affichage s'éteindra lorsque vous amènerez la clé de contact sur la position OFF. Après avoir modifié la position du commutateur de POWER SELECT , n'oubliez pas d'appuyer sur RESET du modulateur avec un stylo-bille ou autre objet pointu.

Touche de réinitialisation

Lorsque l'installation et les connexions sont terminées, que les piles ont été remplacées ou lorsque la position du commutateur POWER SELECT a été modifiée, n'oubliez pas d'appuyer sur la touche de réinitialisation (RESET) à l'aide d'une point bic, etc.

Diagrama de conexión

to the car antenna
à l'antenne de voiture
Car audio
Autoradio
Antenna connector
Connecteur d'antenne
Speaker system
Système de haut-parleurs
Black
Noir
to a metal point on the car
First connect the black ground lead, then connect the yellow and red power input leads.
vers un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
Fuse
Fusible
Yellow
Jaune
to the +12 V power terminal which is powered at all times
Be sure to connect the black ground lead first.
à la borne d'alimentation +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.
Fuse
Fusible
Red
Rouge
to the +12 V power terminal which is powered when the ignition key switch is in the accessory position
Be sure to connect the black ground lead first.
à la borne d'alimentation de +12 V qui est alimentée quand la clé de contact est sur la position accessoire
Raccordez d'abord le fil de masse noir.
Hideaway unit
Modulateur
RESET button
Touche RESET
Insert the connector until it locks.
Insérez le connecteur jusqu'à ce qu'il s'enclenche.
CD changer
Changeur de CD
Insert with the marks facing up
Insérez en dirigeant les repères vers le haut.
Wired Remote
Télécommande à fil

Remarque
Ce système est raccordé par des câbles BUS: toutefois il n'a pas de fonction de fichier personnalisé. Même si vous raccordez ce changeur CD à un appareil Sony doté de la fonction de fichier personnalisé, vous ne pourrez pas vous servir du fichier.

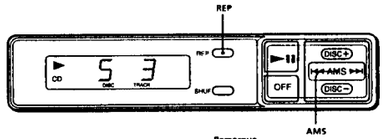
Remplacement du fusible

Si le fusible saute, vérifiez les connexions d'alimentation et remplacez-le. Si le fusible saute à nouveau quand vous venez de le remplacer, il s'agit peut être d'un mauvais fonctionnement interne.

Avertissement

Utilisez un fusible de l'ampérage spécifié. L'utilisation d'un fusible d'ampérage supérieur peut causer de sérieux dommages.

Wired remote (RM-X57)/Télécommande à fil (RM-X57)



Note
The supplied wireless remote (RM-X58) can be operated just like the wired remote (RM-X57).

Remarque
Télécommande sans fil (RM-X58) fournie qui peut être utilisée de la même façon que la télécommande à fil (RM-X57).

Changing the transmitting frequency

Because this unit processes CD playback sound through an FM tuner, there may be interference noise during CD playback. In this case change the frequency of the modulated RF signal transmitted from hideaway unit. The initial setting is 88.3 MHz.

1. **Press (REP) for more than two seconds.**
2. **Press either the left or right side of (AMS) to select the frequency.**
   Each time you press (AMS), the frequencys change as follows:
   - ▶▶I : 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.7 MHz → 89.9 MHz → 88.3 MHz
   - I◀◀ : 88.3 MHz → 89.9 MHz → 89.7 MHz → 89.5 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.7 MHz → 88.5 MHz → 88.3 MHz
3. **Press (REP) for more than two seconds.**

Note
Be sure to set the frequency of your FM tuner to the newly selected frequency.

Changement de la fréquence de transmission

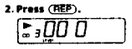
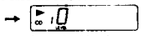
Comme cet appareil traite le son de lecture CD via un syntoniseur FM, il se peut qu'il y ait des interférences durant la lecture du CD. Si c'est le cas, changez la fréquence du signal FM modulé transmis par le modulateur. Le réglage initial est de 88,3 MHz.

1. **Appuyez sur (REP) pendant plus de deux secondes.**
2. **Appuyez sur la gauche ou la droite de (AMS) pour choisir la fréquence.**
   A chaque pression sur la touche (AMS), la fréquence change dans l'ordre suivant:
   - ▶▶I : 88,3 MHz → 88,5 MHz → 88,7 MHz → 88,9 MHz → 89,1 MHz → 89,3 MHz → 89,5 MHz → 89,7 MHz → 89,9 MHz → 88,3 MHz
   - I◀◀ : 88,3 MHz → 89,9 MHz → 89,7 MHz → 89,5 MHz → 89,3 MHz → 89,1 MHz → 88,9 MHz → 88,7 MHz → 88,5 MHz → 88,3 MHz
3. **Appuyez sur (REP) pendant plus de deux secondes.**

Remarque
N'oubliez pas de régler votre tuner FM sur la nouvelle fréquence choisie.

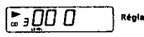
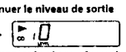
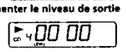
Changing the output level

You can select the output level from the CD changer. Normally the system is used at the initial output level; change the level if necessary.

1. **Press (REP) for more than two seconds.**
2. **Press (REP).**
   
   Initial setting
3. **Press either the left or right side of (AMS) to select the output level.**
   To decrease the output level
   I◀◀: → 
   To increase the output level
   ▶▶I: →
4. **Press (REP) for more than two seconds.**

Changement du niveau de sortie

Vous pouvez sélectionner le niveau de sortie du changeur de CD. Normalement, le système fonctionne sur le niveau de sortie initial. Changez-le si nécessaire.

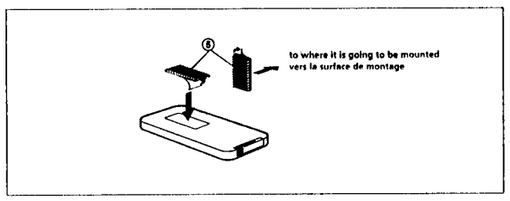
1. **Appuyez sur (REP) pendant plus de deux secondes.**
2. **Appuyez sur (REP).**
   
   Réglage initial
3. **Appuyez sur la gauche ou la droite de (AMS) pour choisir le niveau.**
   Pour diminuer le niveau de sortie
   I◀◀: → 
   Pour augmenter le niveau de sortie
   ▶▶I: → 
4. **Appuyez sur (REP) pendant plus de deux secondes.**

Install the wireless remote

Use the supplied velcro tapes (B), and mount the wireless remote in a suitable location where it will not interfere with your driving.

Installation de la télécommande sans fil

Utilisez les bandes velcro fournies (B) pour installer la télécommande sans fil dans un endroit qui ne risque pas de gêner la conduite.

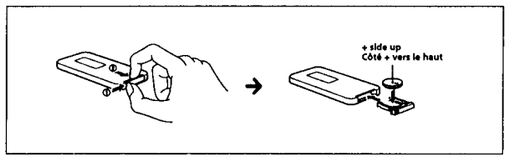


Installing the battery

Replace the battery with a Sony CR2025 or Duracell DL-2025 lithium battery. Use of another battery may present a risk of fire or explosion.

Installation des pile

Remplacez la pile par une pile au lithium CR2025 Sony ou DL-2025 Duracell. L'utilisation d'une autre pile comporte un risque d'incendie ou d'explosion.



Lithium battery life

When the battery becomes weak, you will not be able to operate the unit with the wireless remote.
Battery life is approx. six months although it depending on the conditions of use.

WARNING
Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

Notes on the lithium battery
- *Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.*
- *Wipe the battery with a dry cloth to assure a good contact.*
- *Be sure to observe the correct polarity when installing the battery.*
- *Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.*

Autonomie de la pile au lithium

Lorsque les piles s'épuisent, il ne vous sera plus possible de commander l'appareil à l'aide de la télécommande sans fil.
La pile offre une autonomie d'environ six mois suivant les conditions d'utilisation.

ATTENTION
Utilisée de façon incorrecte, la pile peut exploser. Ne pas la recharger, la démonter ni la jeter dans un feu.

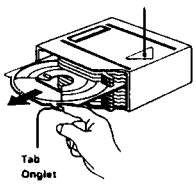
Remarques sur les piles au lithium
- *Gardez les piles au lithium hors de la portée des enfants. En cas d'ingestion, consultez immédiatement un médecin.*
- *Essuyez la pile à l'aide d'un chiffon sec de façon à assurer un bon contact.*
- *Respectez la polarité de la pile lorsque vous l'installez.*
- *Ne saisissez pas la pile à l'aide d'une pince métallique, sinon vous risquez de provoquer un court-circuit.*

Inserting a disc

Insertion d'un disque

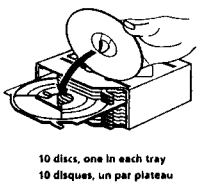
1

With the arrow side facing up
Avec le côté portant la flèche orienté vers le haut



Tab
Onglet

Labeled surface up
Face imprimée vers le haut



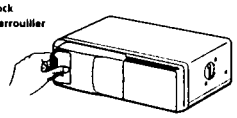
10 discs, one in each tray
10 disques, un par plateau

Notes
- *To listen to an 8 cm (3-in.) CD, use the separately sold Sony CD adapter CSA-8. Be sure to always use the specified adapter, as failing to do so may cause a malfunction of the unit. If you use any other adapter, the unit may not operate properly. When using the Sony CD adapter, make sure that the three catches on the adapter are firmly latched onto the 8 cm CD.*
- *Do not insert the Sony CD adapter CSA-8 in the magazine without a disc, malfunction may result.*

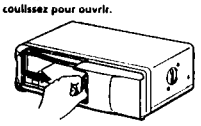
Remarques
- *Pour écouter un disque de 8 cm (3 po.), utilisez l'adaptateur Sony CSA-8, vendu séparément, à l'exclusion de tout autre, pour éviter tout problème de fonctionnement. Si vous utilisez un autre adaptateur, l'appareil risque de ne pas fonctionner correctement. Quand vous utilisez l'adaptateur CD Sony, vérifiez que les trois griffes soient bien en prise sur le CD de 8 cm.*
- *N'introduisez pas l'adaptateur CD Sony CSA-8 dans le chargeur sans disque, car vous risquez sinon de provoquer un dysfonctionnement.*

2

Unlock
Déverrouiller

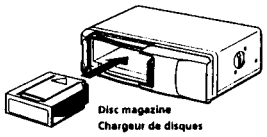


Release, and slid open
Relâchez et coulissez pour ouvrir.

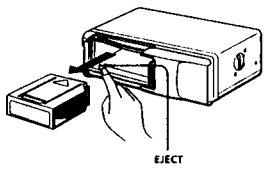


3

To remove
Retrait



Disc magazine
Chargeur de disques

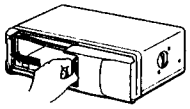


EJECT

If the disc magazine does not lock properly
Take out the magazine, and after pressing the (EJECT) button, reinsert it.

Si vous ne pouvez pas fermer le chargeur de disques
Sortez-le et après avoir appuyé sur (EJECT), réinsérez-le.

4



Use the unit with the door closed
Otherwise, foreign matter may enter the unit and contaminate the lenses inside the changer.

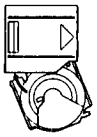
Utiliser cet appareil avec la trappe fermée
Sinon, des corps étrangers pourraient pénétrer dans l'appareil et encrasser les lentilles dans le lecteur.

Notes on the disc magazine

- Do not leave the disc magazine in locations with high temperatures and high humidity, such as on a car dashboard or in the rear window where the disc magazine will be subjected to direct sunlight.
- Do not insert more than one disc at a time into a slot, otherwise the changer and the discs may be damaged.
- Do not drop the disc magazine or subject it to a violent shock.

When the tray comes out

Normally, the trays will not comes out of the magazine. However, if they are pulled out of the magazine, it is easy to re-insert them.



With the cut-away portion of the tray facing you, insert the right corner of the tray in the slot, then push in the left corner until it clicks.

Note
Do not insert the tray upside down or in the wrong direction.

Remarques sur le chargeur de disques

- Ne pas laisser le chargeur de disques dans un endroit très chaud ou très humide comme sur le tableau de bord ou sur la plage arrière d'une voiture où il serait en plein soleil.
- Ne placez pas plus d'un disque à la fois par plateau, car vous risquez sinon d'endommager le changeur et les disques.
- Ne pas laisser tomber le chargeur de disques ni le cogner.

Si un plateau s'enlève

En principe, les plateaux ne s'enlèvent pas du magasin. S'ils s'enlèvent du magasin, cependant, il peuvent être facilement réintroduits.

L'encoche du plateau étant face à vous, introduisez l'angle droit du plateau dans la fente et poussez ensuite sur l'angle gauche jusqu'à ce qu'il s'encliquette.

Remarque
N'introduisez pas le plateau à l'envers ni dans le mauvais sens.

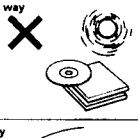
Notes on compact discs

A dirty or defective disc may cause sound drop-outs during playback. To enjoy optimum sound, handle the disc as follows.

Handle the disc by its edge, and do not touch the unlabled surface. **This way**

Do not stick paper or tape on the labeled surface. **Not this way**

Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car. **Not this way**



Before playing, clean the discs with an optional cleaning cloth. Wipe each disc in the direction of the arrows. **This way**

Do not use solvents such as benzine, thinner, commercially available cleaner or antistatic spray intended for analog discs.

Moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. And the unit will not operate properly. In this case, **remove the disc and wait for about an hour until the moisture has evaporated.**

If you have any questions or problems concerning your system that are not covered in this manual, please consult your nearest Sony dealer.

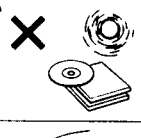
Remarques sur les disques compacts

Un disque sale ou défectueux peut provoquer des pertes de son à la lecture. Manipuler le disque comme suit pour obtenir un son optimal.

Saisissez les disques par les bords. Pour que les disques restent propres, n'en touchez jamais la surface. **Oui**

Ne collez pas de papier ni de bande adhésive sur la face imprimée. **Non**

N'exposez pas les disques au rayonnement direct du soleil ou à des sources de chaleurs telles que des conduits d'air chaud. De même, ne les laissez pas dans une voiture parquée en plein soleil où la température à l'intérieur de l'habitacle risque d'augmenter dans des proportions considérables. **Non**



Avant la lecture, essuyer les disques avec un chiffon de nettoyage optionnel. Essuyer chaque disque dans le sens des flèches. **Oui**

Ne pas utiliser de solvants tels que de la benzine, du diluant, des produits de nettoyage vendus dans le commerce ou des vaporisateurs anti-statiques destinés aux disques analogiques.

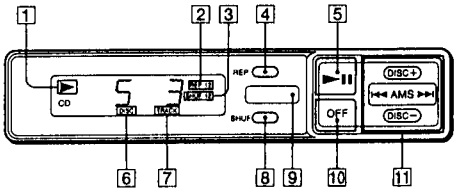
Remarque sur la condensation d'humidité

Les jours de pluie et dans les régions très humides, il se peut que de l'humidité se condense sur l'objectif à l'intérieur de l'appareil, qui risque alors de ne pas fonctionner correctement. Dans ce cas, **retirez le chargeur de disques et attendez environ une heure que l'humidité se soit évaporée.**

Pour toute question au sujet de ce système et non couverte dans ce manuel, veuillez consulter votre revendeur Sony le plus proche.

Location and function of controls

Wired remote (RM-X57)/Télécommande à fil (RM-X57)



1 **►(play/pause) indication**
Lights during CD playback and flashes when the pause button is pressed.

2 **REP (repeat play) indication**

3 **SHUF (shuffle play) indication**

4 **REP (repeat play/control mode set) button**

5 **►II (play/pause) button**
If pressed during playback, the CD will pause. If pressed again, playback will continue.

6 **DISC (disc number) indication**
The indicated disc number matches the disc number in the disc magazine.

7 **TRACK (track number) indication**

8 **SHUF (shuffle play) button**

9 **Infrared receptor for the wireless remote**

10 **OFF button**

11 **AMS*/DISC (disc select/manual search) button**
Depending on which side of the button you press, you can select from the following functions.

*Automatic Music Sensor

AMS function
To locate the beginning of a track, press
►►I to locate the beginning of the next track.
I◄◄ to locate the beginning of the track currently played.
If you press the switch repeatedly, the beginnings of all following or previous tracks will be located until the end of the disc is reached.

Disc select function
To select a desired disc, press momentarily
+ to select the next disc.
− to select the previous disc.

Manual search function
To quickly locate a desired point of a track, press and hold down
+ to fast-forward.
− to fast-reverse.
The elapsed playing time of the track will be shown in the display window during manual search.

When the unit is used in a car without an accessory position on the ignition key switch

Be sure to press OFF on the wireless remote to turn the system off to avoid battery wear while the engine is not running.

If the POWER SELECT switch on the hideaway unit is set to the OFF position and the display on the wired remote is turned off, you will not be able to start CD playback with the wireless remote. In this case, press ►II on the wired remote .

Troubleshooting guide

The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.

General

Problem	Cause/Solution
The unit does not function.	• The built-in micro computer has malfunctioned. → **Press the reset button on the hideaway unit.** • The connecting cords are not connected properly.
The sound skips.	• The CD changer is installed in an unstable location. → **Reinstall it in a stable location.** • The disc(s) is dirty or defective. → **Clean or replace it(them).**
The disc magazine is not locked in the CD changer.	Take out the disc magazine, press EJECT, and reinsert the disc magazine until it is locked securely.

Error displays

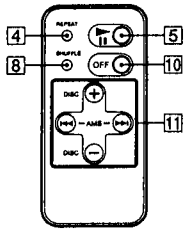
The following indications will flash for about five seconds.

Display	Cause	Solution
E-01	The disc magazine is not inserted in the CD changer.	Insert the disc magazine with discs into the CD changer.
E-02	No disc is inserted in the disc magazine.	Take out the disc magazine and insert a disc(s).
E-04	The disc is dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
E-99	The CD changer cannot be operated because of some problem.	Press RESET on the hideaway unit.

If the solutions mentioned above do not improve the situation, consult your nearest Sony dealer.

Nomenclature

Wireless remote (RM-X58)/Télécommande sans fil (RM-X58)



1 **Témoin de lecture/pause (►)**
Il s'allume pendant la lecture de CD et clignote pendant le mode de pause.

2 **Indication de répétition de la lecture (REP)**

3 **Indication de lecture aléatoire (SHUF)**

4 **Touche de répétition de la lecture/mode de réglage (REP)**

5 **Touche de lecture/pause (►II)**
Si vous appuyez pendant la lecture de CD, l'appareil se met en mode de pause. Appuyez de nouveau pour reprendre la lecture.

6 **Numéro de disque (DISC)**
Le numéro de disque indiqué correspond au numéro de disque dans le chargeur.

7 **Numéro de plage (TRACK)**

8 **Touche de lecture aléatoire (SHUF)**

9 **Récepteur de télécommande sans fil IR**

10 **Touche d'arrêt de la lecture de CD (OFF)**

11 **Touche de disque/recherche manuelle (AMS*/DISC)**
Selon le côté de la touche où vous appuyez, vous pouvez choisir une des fonctions suivantes.

* Automatic Music Sensor: Détecteur automatique de plages musicales

Fonction AMS
Quand vous recherchez le début d'une plage, appuyez sur
►►I pour localiser le début de la plage suivante.
I◄◄ pour localiser le début de la plage en cours.
Si vous appuyez à plusieurs reprises sur le sélecteur, vous pourrez localiser le début des plages précédentes ou suivantes jusqu'à la fin du disque.

Fonction de sélection de disque
Quand vous voulez sélectionner un disque, appuyez momentanément sur
+ pour choisir le disque précédent.
− pour choisir le disque suivant.

Fonction de recherche manuelle
Quand vous voulez rechercher rapidement un passage d'une plage, appuyez et tenez enfonce
+ pour avancer rapidement.
− pour reculer rapidement.
La durée écoulée de la plage apparaît sur l'afficheur pendant la recherche manuelle.

Si l'appareil est utilisé dans une voiture dont le contact ne comporte pas de position accessoires

N'oubliez pas d'appuyer sur OFF de la télécommande à fil pour éteindre la chaîne et éviter l'usure de la batterie quand vous quittez votre voiture et que le moteur ne tourne pa.

Lorsque le sélecteur POWER SELECT sur l'appareil dissimulé se trouve sur la position OFF et que la télécommande à fil de l'unité d'affichage est hors tension, vous ne pourrez pas démarrer la lecture de CD avec la télécommande sans fil. Dans ce cas, vous devez appuyer sur ►II sur la télécommande à fil.

Guide de dépannage

La liste de contrôles suivante vous permettra de remédier à la plupart des problèmes que vous pourriez rencontrer avec cet appareil. Avant de parcourir cette liste de contrôles, revérifiez les procédures de raccordement et les instructions d'utilisation.

Problèmes généraux

Problème	Cause/solution
Le système ne fonctionne pas.	• Le micro-ordinateur intégré est défaillant. → **Appuyez sur la touche de réinitialisation du modulateur.** • Les cordons de raccordement sont mal branchés.
Le son saute.	• Le changeur de CD est installé dans un endroit instable. → **Réinstallez-le dans un endroit stable.** • Le disque est sale ou défectueux → **Nettoyez ou remplacez le disque.**
Le chargeur de disques est mal encastré.	Sortez le chargeur de disques, appuyez sur EJECT et réintroduisez-le ensuite jusqu'à ce qu'il s'encliquette.

Affichages d'erreur

Les indications suivantes clignotent pendant environ cinq secondes.

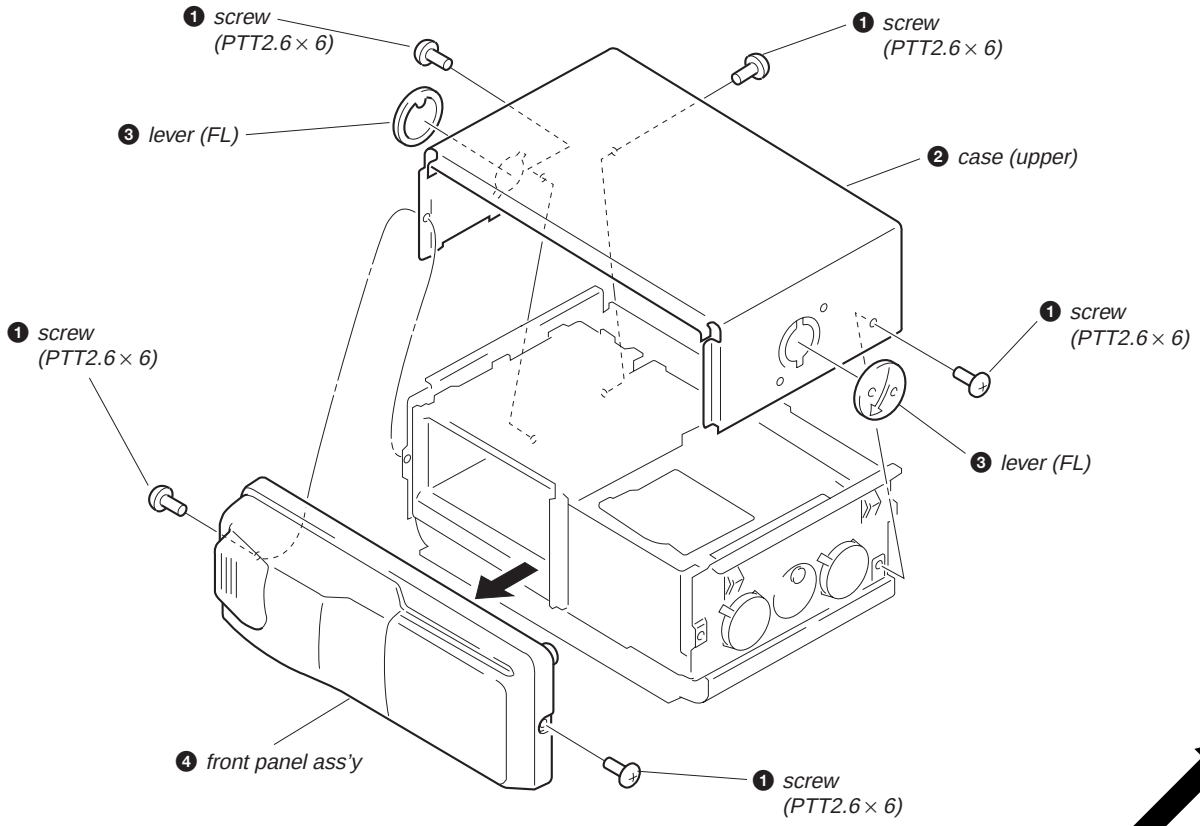
Affichage	Cause	Solution
E-01	Pas de chargeur de disques dans le changeur de CD.	Insérez un chargeur avec des disques dans le changeur de CD.
E-02	Pas de disque dans le chargeur.	Enlevez le chargeur et insérez des disques.
E-04	Le disque est sale.	Nettoyez le disque.
	Le disque est inséré à l'envers.	Insérez le disque correctement.
E-99	Le changeur de CD ne fonctionne pas.	Appuyez sur la touche RESET du modulateur.

Si les solutions mentionnées ci-dessus ne peuvent pas résoudre le problème, consultez le revendeur Sony le plus proche.

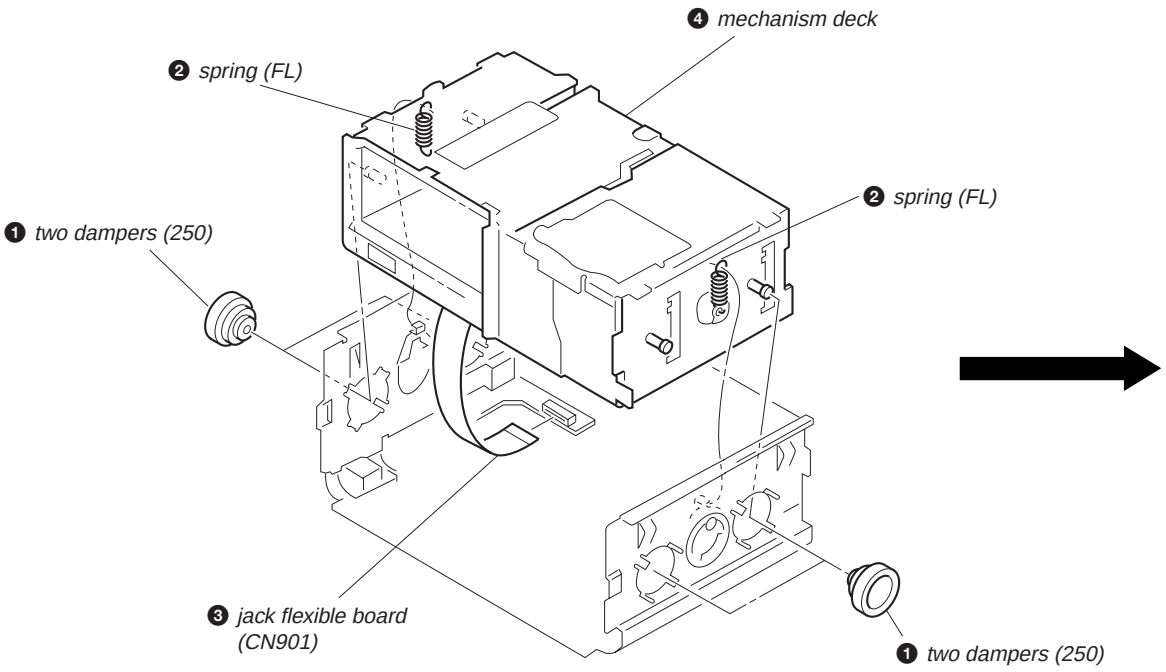
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

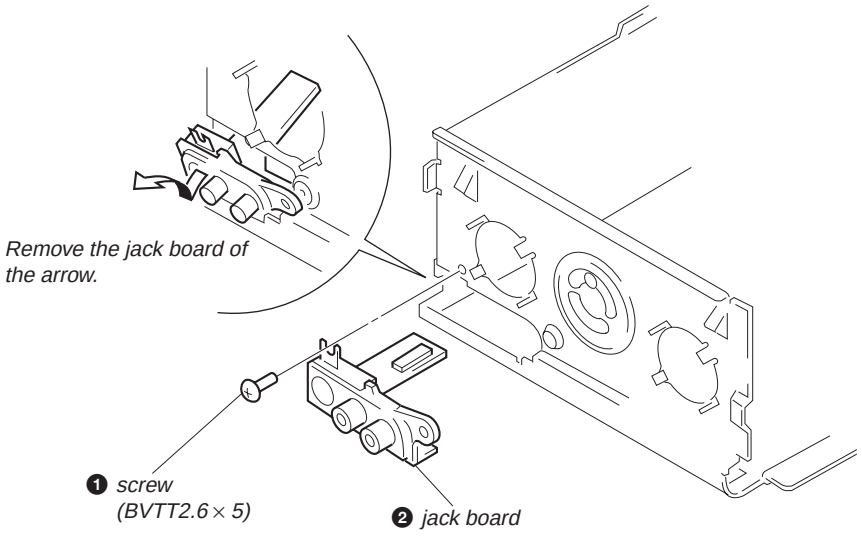
COVER (UPPER), FRONT PANEL ASS'Y


❶ screw (PTT2.6 × 6)
❶ screw (PTT2.6 × 6)
❸ lever (FL)
❷ case (upper)
❶ screw (PTT2.6 × 6)
❶ screw (PTT2.6 × 6)
❸ lever (FL)
❹ front panel ass'y
❶ screw (PTT2.6 × 6)

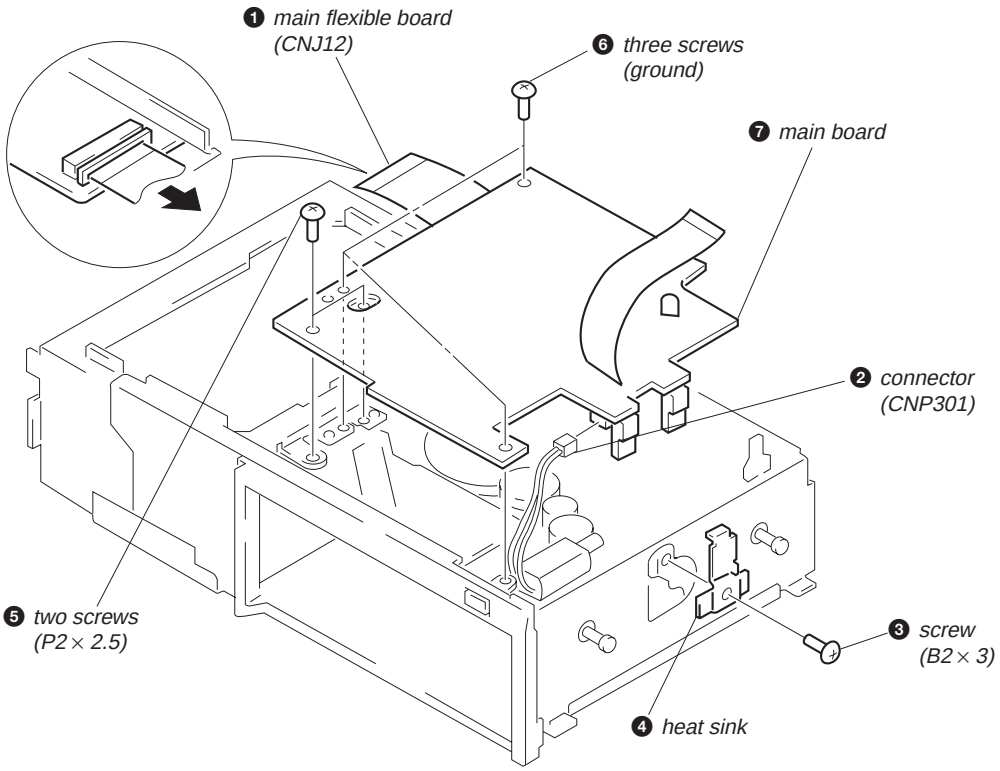
MECHANISM DECK



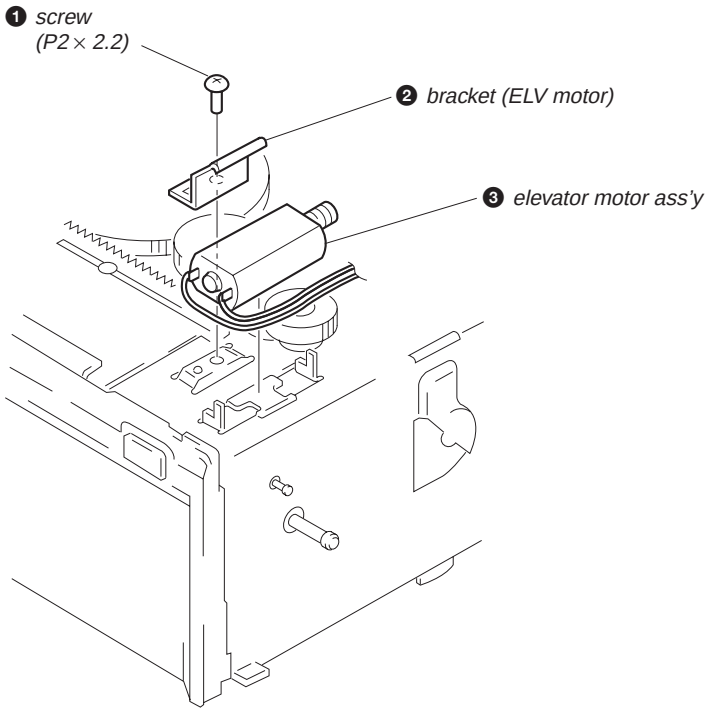
JACK BOARD



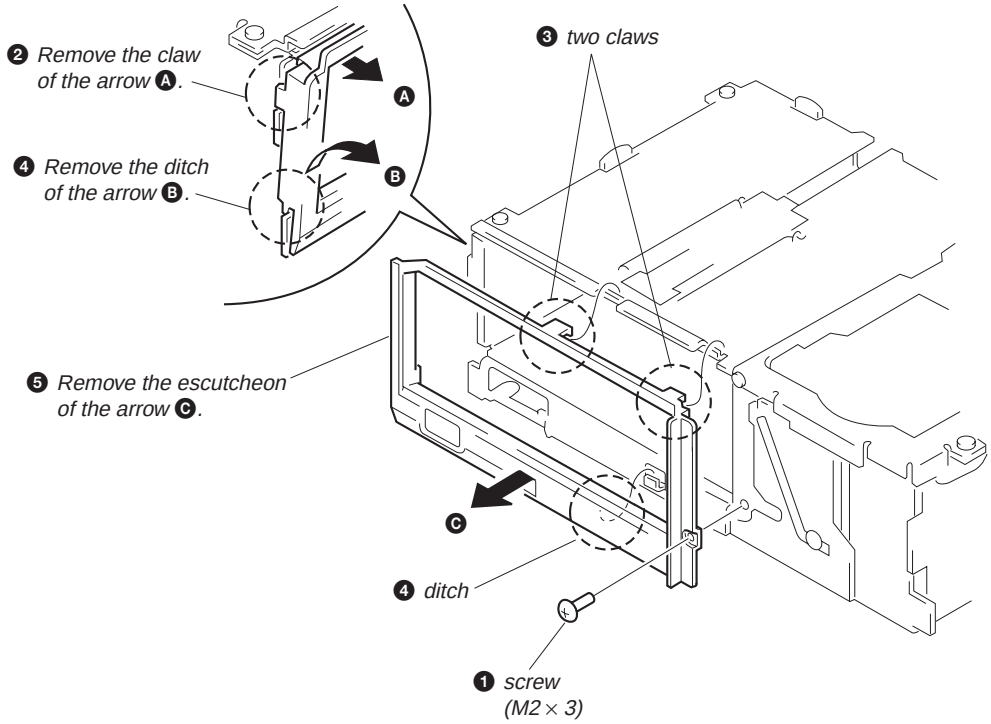
MAIN BOARD



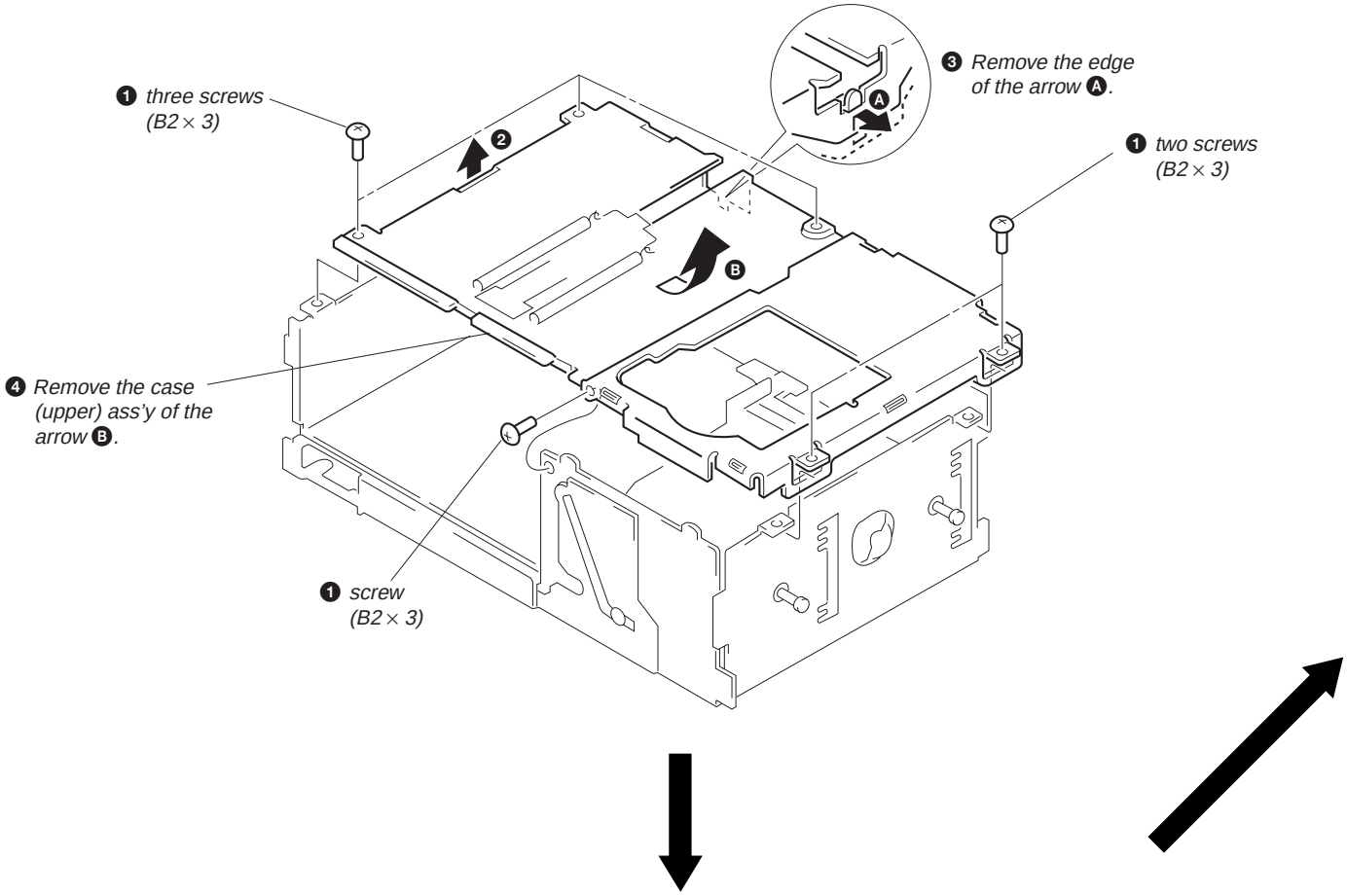
ELEVATOR MOTOR ASS'Y (M104)



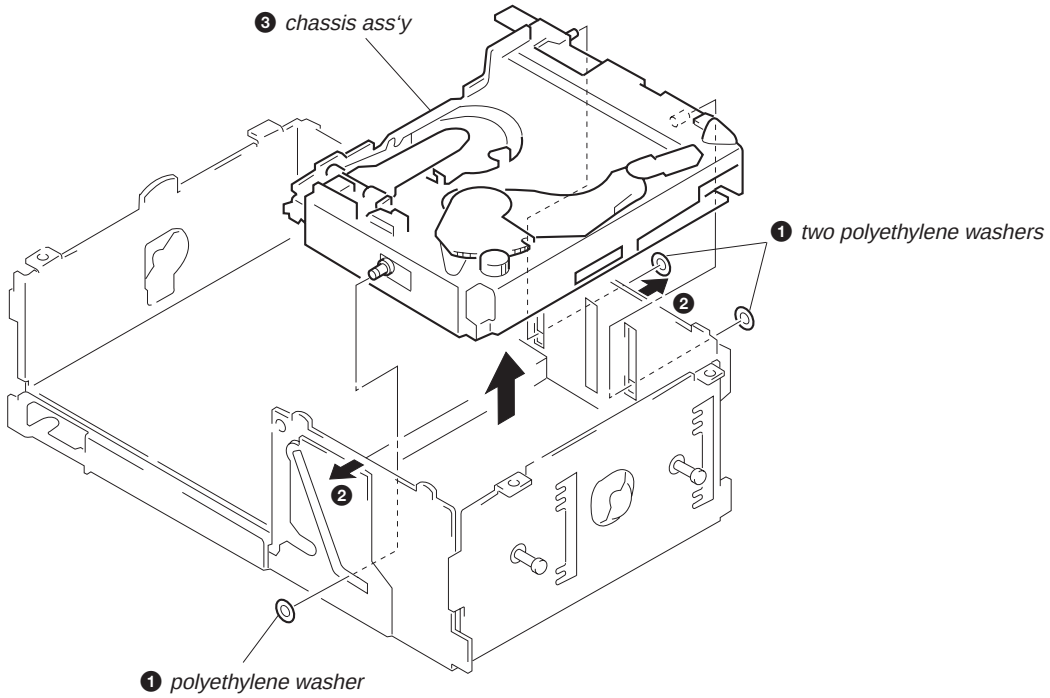
ESCUTCHEON



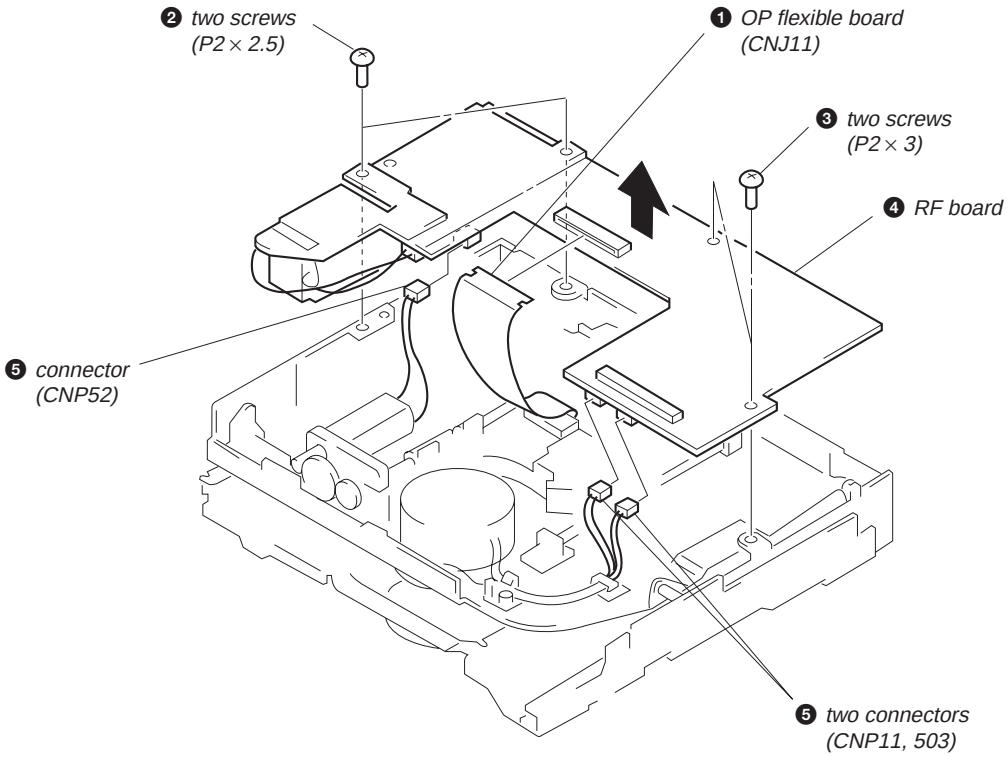
CASE (UPPER) ASS'Y



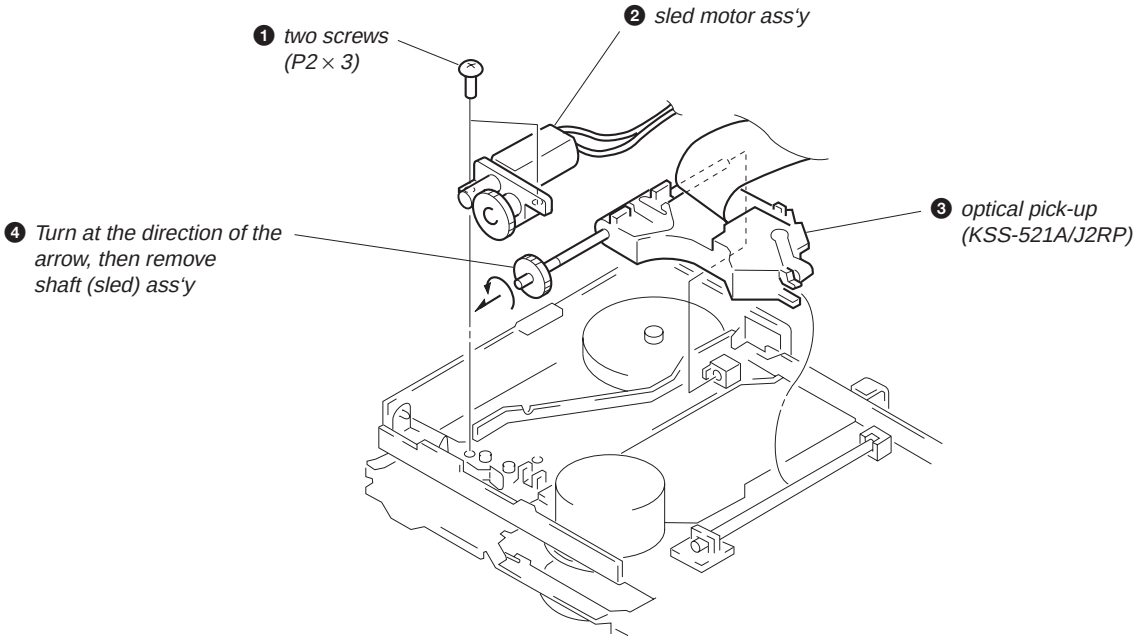
CHASSIS ASS'Y



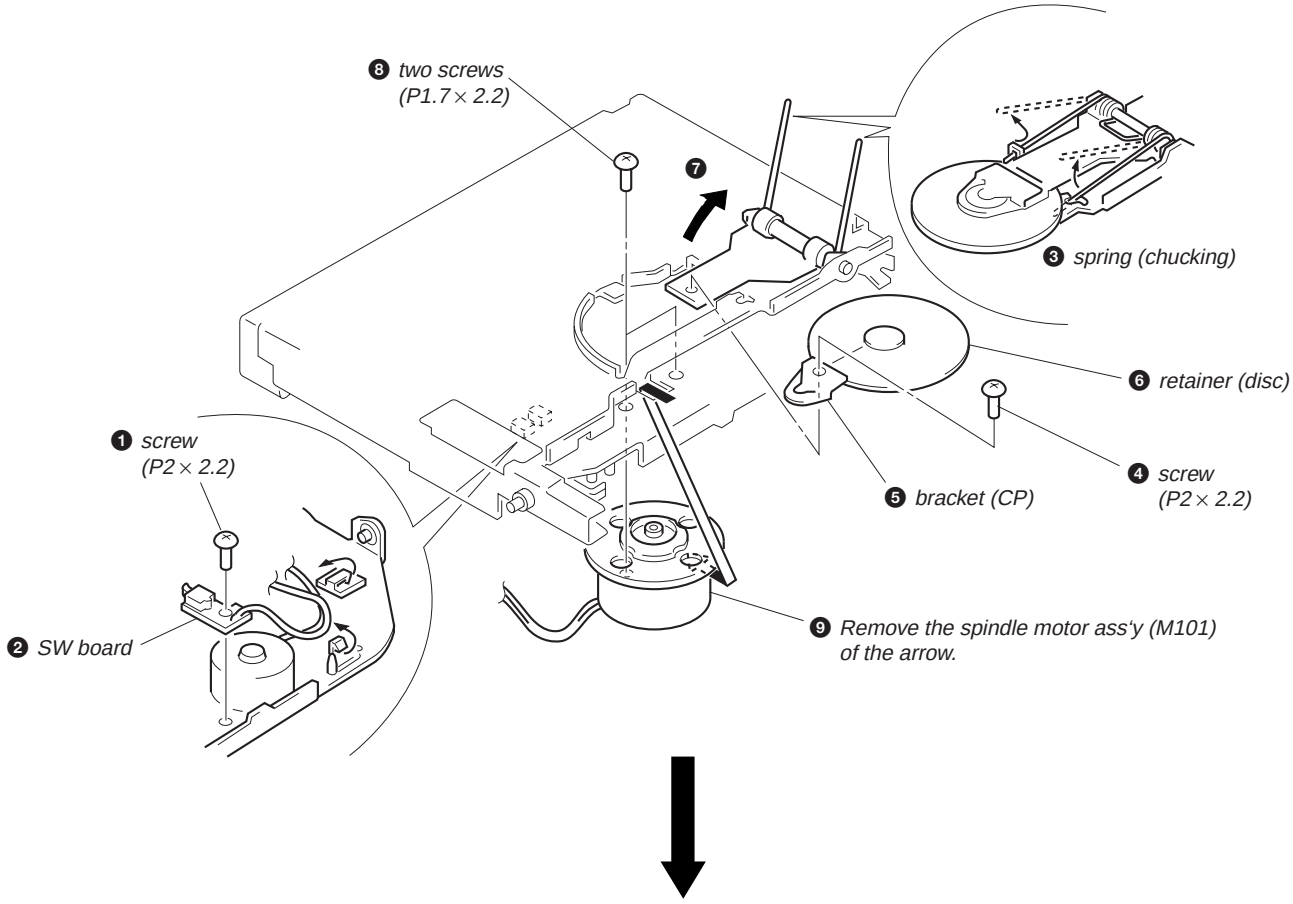
RF BOARD



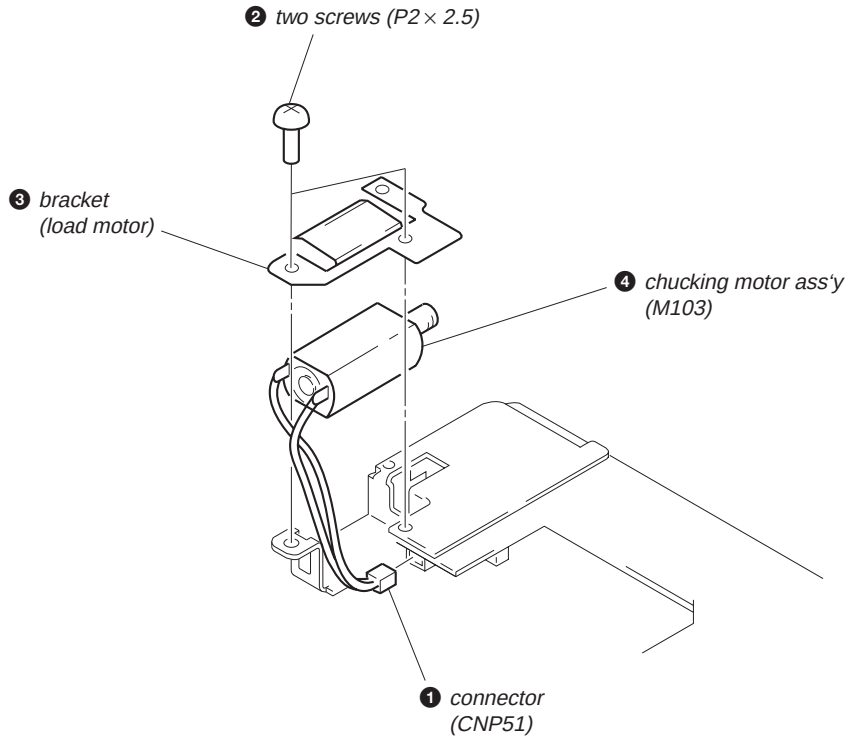
SLED MOTOR ASS'Y (M102), OPTICAL PICK-UP (KSS-521A/J2RP)



SW BOARD, SPINDLE MOTOR ASS'Y (M101)


❽ two screws (P1.7 × 2.2)
❼
❸ spring (chucking)
❻ retainer (disc)
❶ screw (P2 × 2.2)
❺ bracket (CP)
❹ screw (P2 × 2.2)
❷ SW board
❾ Remove the spindle motor ass'y (M101) of the arrow.

CHUCKING MOTOR ASS'Y (M103)



SECTION 3
ELECTRICAL ADJUSTMENTS

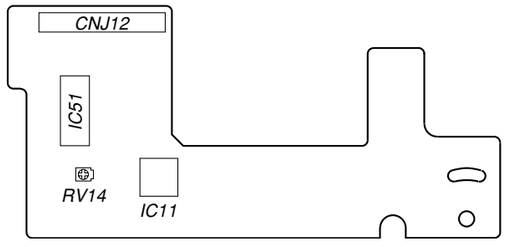
- **FOCUS GAIN ADJUSTMENT (COARSE ADJUSTMENT)**

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV14

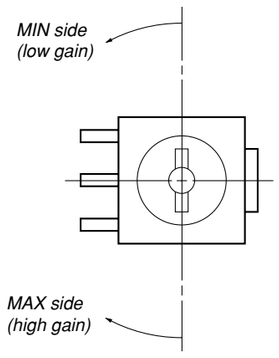
Procedure:

[RF BOARD] – Conductor Side –



1. Set RV14 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV14 slightly clockwise.

[RF BOARD] – Conductor Side –



RV14 standard position

- **When gain is lowered...**
  The set does not play because of no focus operation.
- **When gain is highered...**
  Operation noise is heard due to a scratch or a dust, then operation will be unstable.

SECTION 4
DIAGRAMS

4-1. PRINTED WIRING BOARD – RF Section –

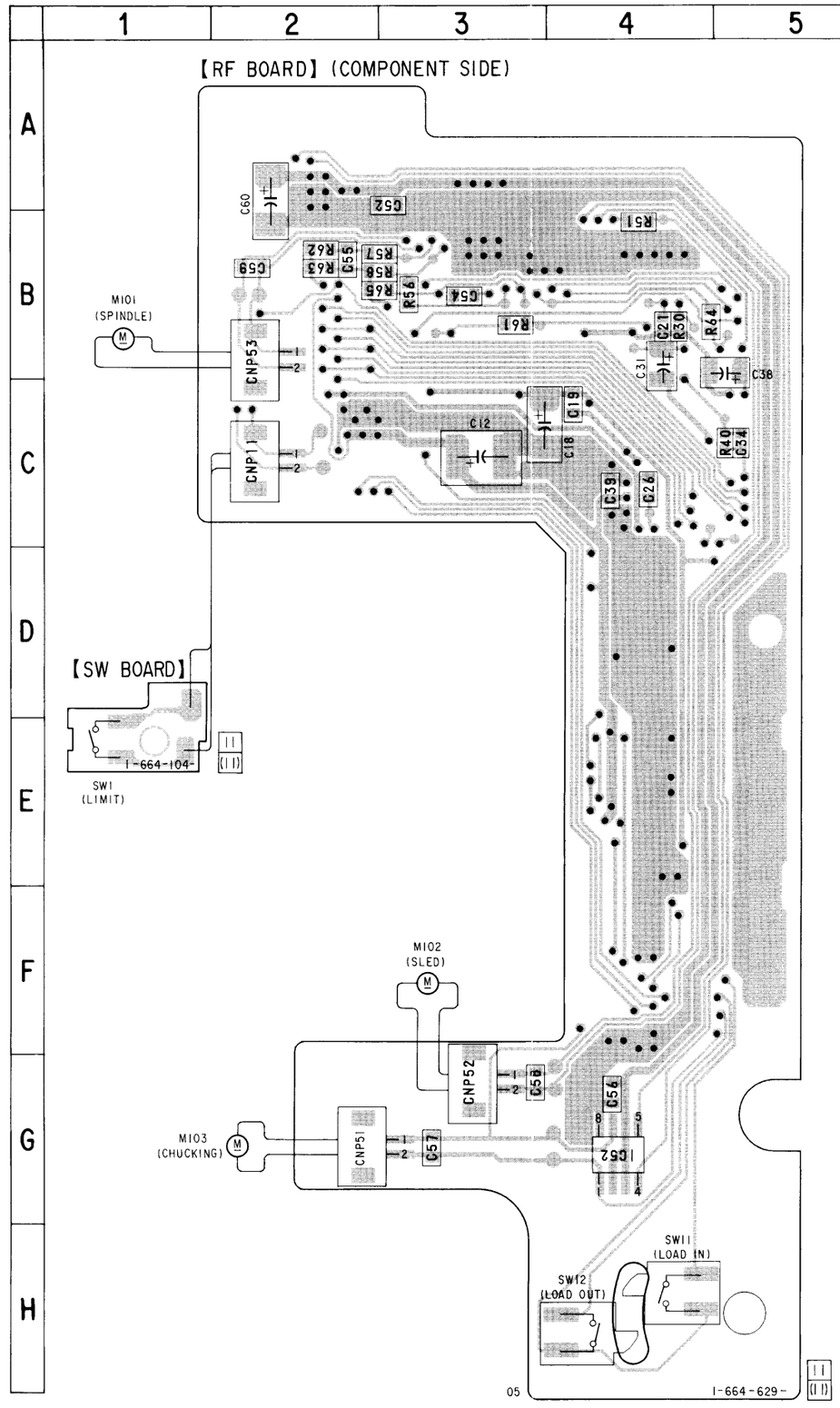
• **Semiconductor Location**

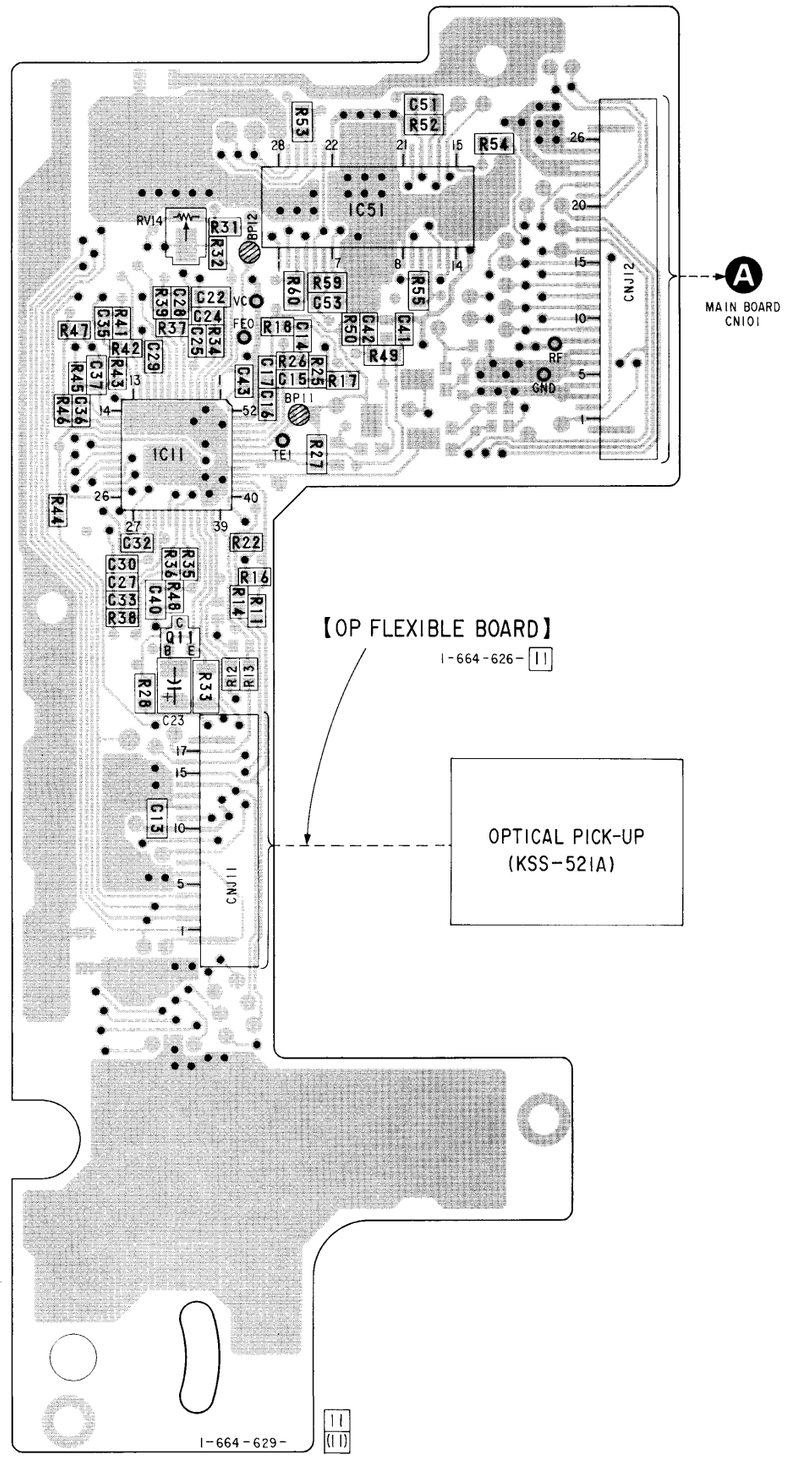
Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6

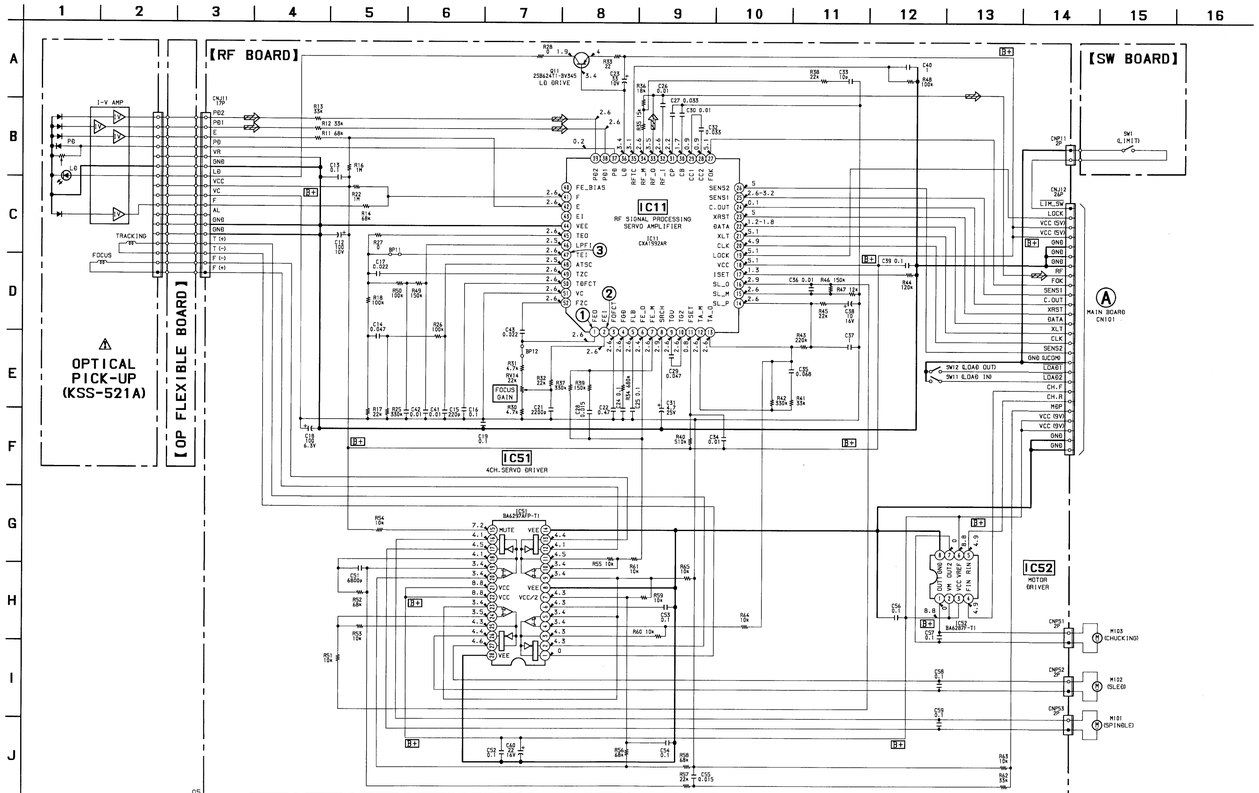
Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

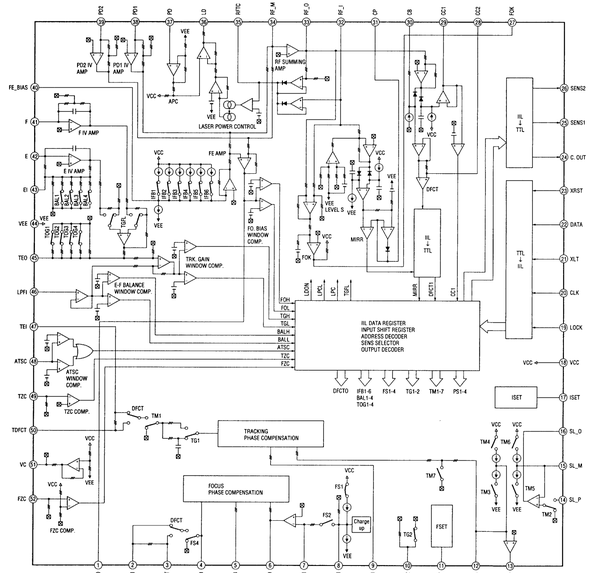




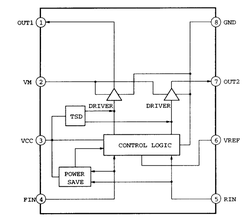


• IC Block Diagrams

IC11 CXA1992AR



IC52 BA6287F



Note on Schematic Diagram:

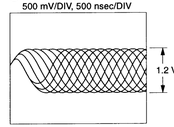
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

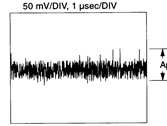
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

• Waveforms

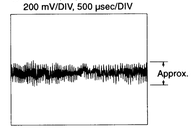
❶ IC11 ① (FEO)
500 mV/DIV, 500 nsec/DIV



❷ IC11 ② (FEI)
50 mV/DIV, 1 µsec/DIV



❸ IC11 ④ (TEI)
200 mV/DIV, 500 µsec/DIV



4-3. SCHEMATIC DIAGRAM – MAIN Section –

• See page 31 for IC Block Diagrams.

SEE ADDITIONAL INFORMATION

【MAIN BOARD】

MAIN FLEXIBLE BOARD

IC101 DIGITAL SIGNAL PROCESSOR

IC202 RESET

IC204 SONY BUS INTERFACE

IC203 +5V REGULATOR

IC201 +5V REGULATOR

IC302 SYSTEM CONTROLLER

IC301 ELEVATOR MOTOR DRIVER

IC401 D/A CONVERTER DIGITAL FILTER LOW PASS FILTER

【JACK BOARD】

JACK FLEXIBLE BOARD

RV302 ELEVATOR (LINER POSITION SENSOR)

RV301 LINER POSITION SENSOR

SW302 (MAGAZINE IN/OUT DETECT)

SW301 (MAGAZINE EJECT END DETECT)

Q203, 204 BACK-UP SWITCH

Q202 CD ON SWITCH

Q205 REG.

Q401, 402 MUTE DRIVE

Q403, 404 MUTE

Q501 KN1A22-7X SWITCH

X301 16.9344MHz

X302 CSTCR4M00G55-R0

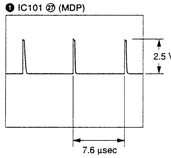
(SONY BUS)

(ELEVATOR)

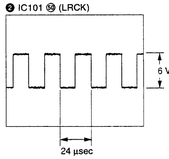
(CHASSIS)

• Waveforms

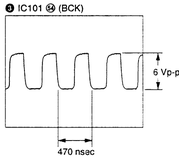
❶ IC101 ㉗ (MDP)



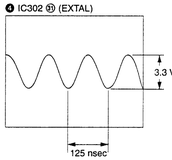
❷ IC101 ㉜ (LRCK)



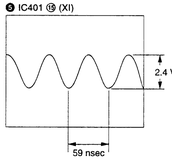
❸ IC101 ㉝ (BCK)



❹ IC302 ㉑ (EXTAL)



❺ IC401 ⑮ (XI)



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4 V and fed front CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

4-4. PRINTED WIRING BOARD – MAIN Section –

SEE ADDITIONAL INFORMATION

【JACK BOARD】
(COMPONENT SIDE)

【JACK BOARD】
(CONDUCTOR SIDE)

【JACK FLEXIBLE BOARD】
1-664-628-11

【MAIN BOARD】(COMPONENT SIDE)

【MAIN FLEXIBLE BOARD】
1-664-627-11

【MAIN BOARD】(CONDUCTOR SIDE)

• **Semiconductor Location**

Ref. No.	Location
D201	D-10
D202	D-10
D203	F-11
D204	F-11
D205	F-10
D206	F-10
D207	F-9
D301	H-13
D501	H-12
D502	G-12
D503	G-12
D504	G-12
D505	H-12
IC101	D-15
IC201	F-25
IC202	I-13
IC203	E-25
IC204	G-12
IC301	G-11
IC302	H-14
IC401	D-13
Q201	E-25
Q202	C-10
Q203	F-11
Q204	H-12
Q205	F-10
Q301	G-15
Q401	E-12
Q402	E-12
Q403	D-11
Q404	D-11

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

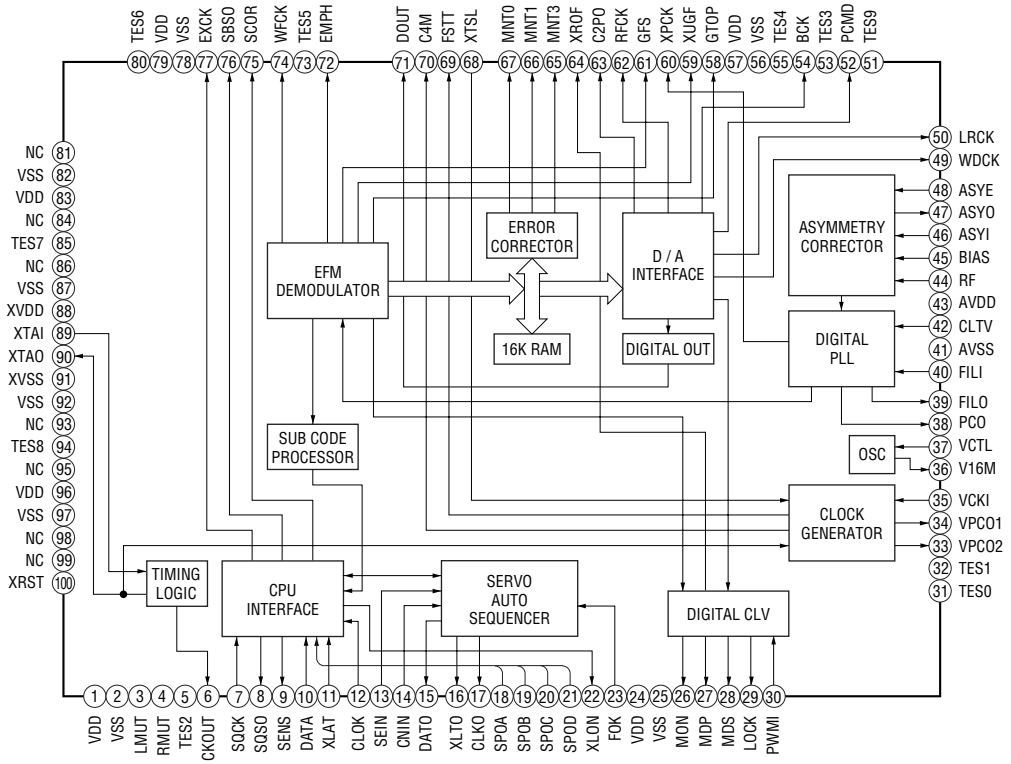
(The other layers' patterns are not indicated.)

Caution:

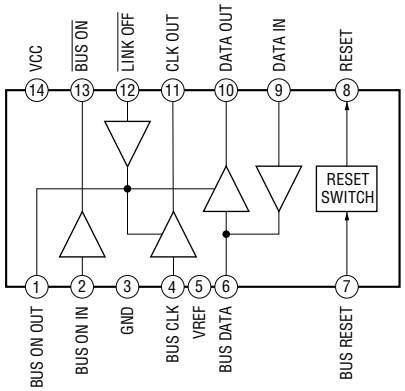
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

• IC Block Diagrams

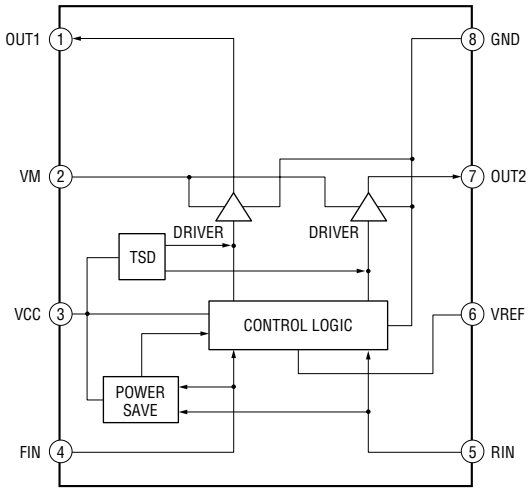
IC101 CXD2530Q



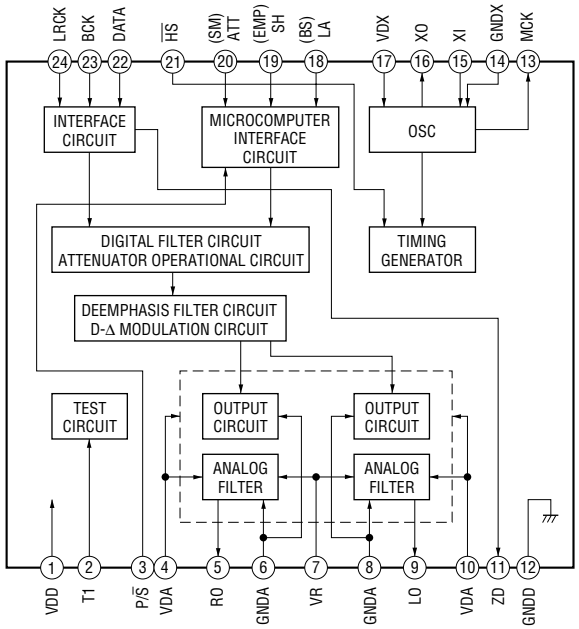
IC204 BA8272F-E2


VCC BUS ON LINK OFF CLK OUT DATA OUT DATA IN RESET
14 13 12 11 10 9 8
RESET SWITCH
1 2 3 4 5 6 7
BUS ON OUT BUS ON IN GND BUS CLK VREF BUS DATA BUS RESET

IC301 BA6287F



IC401 TC9404FN-EL



SECTION 6
DIAGRAMS

4-5. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC302 CXP84124-066Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	$\overline{\text{LIM.SW}}$	I	Input of limit switch
2	BUSON	I	Input of Bus on control signal from SONY bus interface (IC204) "H": Bus on
3	EJECT	I	Input of EJECT key (SW303) "H": Eject on
4	$\overline{\text{LOAD 1}}$	I	Input of LOAD OUT switch
5	$\overline{\text{LOAD 2}}$	I	Input of LOAD IN switch
6	A.MUTE	O	Output of audio output mute on/off control signal "H": Mute on
7	EMPH	O	Output of emphasis mode for disc playing "L": on
8	CH.R	O	Output of control signal to the chucking motor drive (IC52)
9	CH.F	O	
10	—	—	Not used
11	ELV.R	O	Output of control signal to elevator motor drive (IC301)
12	ELV.ON	O	Output of mechanical deck power supply control signal "H": on
13	CD RST	O	Servo system resetting
14	CD ON	O	Output of servo power supply control signal "H": on
15	GBON	—	Not used
16	EEON	—	Not used
17-23	—	—	Not used
24	TEST1	I	Automatic adjustment selection "L": Automatic adjustment "H": Manual adjustment (Solder across the BP302 terminal)
25-29	—	—	Not used
30	$\overline{\text{RESET}}$	I	Input of system reset signal "L": Reset
31	EXTAL	I	Input of system clock (8 MHz)
32	XTAL	O	Output of system clock (8 MHz)
33	VSS	—	Ground pin
34	TX	—	Not used
35	TEX	I	Connected to ground
36	AVSS	—	Ground pin of A/D converter
37	AVREF	I	Input of A/D converter reference voltage
38	ATRIBT	I	Selection of custom file, D-BASS, etc.
39	MCK	I	Input of signal for fine adjustment of elevator position
40	EHS	I	Input of elevator position (RV302)
41	HTMP	—	Not used
42	—	—	Not used
43	MODE1	O	Output of D-BASS control signal Not used
44	MODE2	O	Output of D-BASS control signal Not used
45	MODE3	O	Output of D-BASS control signal Not used
46, 47	—	—	Not used
48	SCK	O	Output of serial clock signal from SONY bus interface (IC204)
49	SI	I	Input of serial data signal from SONY bus interface (IC204)
50	SO	O	Output of serial data signal to SONY bus interface (IC204)

	FWD	REV	Brake
CH.R	L	H	H
CH.F	H	L	H

Forward : Load chucking
Reverse : Save

Pin No.	Pin Name	I/O	Function
51	SQCLK	O	Output of clock signal to CXD2530Q (IC101)
52	SUBQ	I	Input of subcode Q data signal from CXD2530Q (IC101)
53	—	—	Not used
54	—	—	Connected to the power supply
55	MGLK	I	Input of magazine eject completion detect switch (SW301) "L": Eject completed
56	SCOR	I	Input of subcode sync detect signal from CXD2530Q (IC101)
57	SENS2	I	Input of sense signal from CXA1992AR (IC11)
58	PWM	O	Output of PWM for control to elevator motor drive (IC301)
59	—	—	Not used
60	$\overline{\text{MAG.SW}}$	I	Input of magazine detection switch (SW302) "L": Magazine detected
61	BUCHECK	I	Input of backup detection detection "H": Backup on
62	W.UP	I	Input of Bus on or EJECT key
63	C.OUT	I	Input of track counting signal
64	EEDATA	I/O	Input/output of data signal to E^2PROM (IC303) Not used
65	EECLK	O	Output of clock signal to E^2PROM (IC303) Not used
66	EEINIT	I	Input of OK signal from E^2PROM (IC303) fixed at "L"
67	—	—	Not used
68	$\overline{\text{SINGLE}}$	I	Selection of single mode "L": Single CD playing
69	FOK	I	Input of focus initialize signal from CXA1992AR (IC11) and CXD2530Q (IC101)
70	GFS	I	Input of guard frame sync signal from CXD2530Q (IC101)
71	SENS1	I	Input of sense signal from CXD2530Q (IC101)
72	VDD	—	Power supply
73	—	—	Connected to the power supply
74	CD CLK	O	Output of serial data transfer clock signal to CXD2530Q (IC101)
75	CD XLT	O	Output of latch signal to CXD2530Q (IC101)
76	CD DATA	O	Output of serial data signal to CXD2530Q (IC101)
77-80	—	—	Not used

SECTION 5
EXPLODED VIEWS

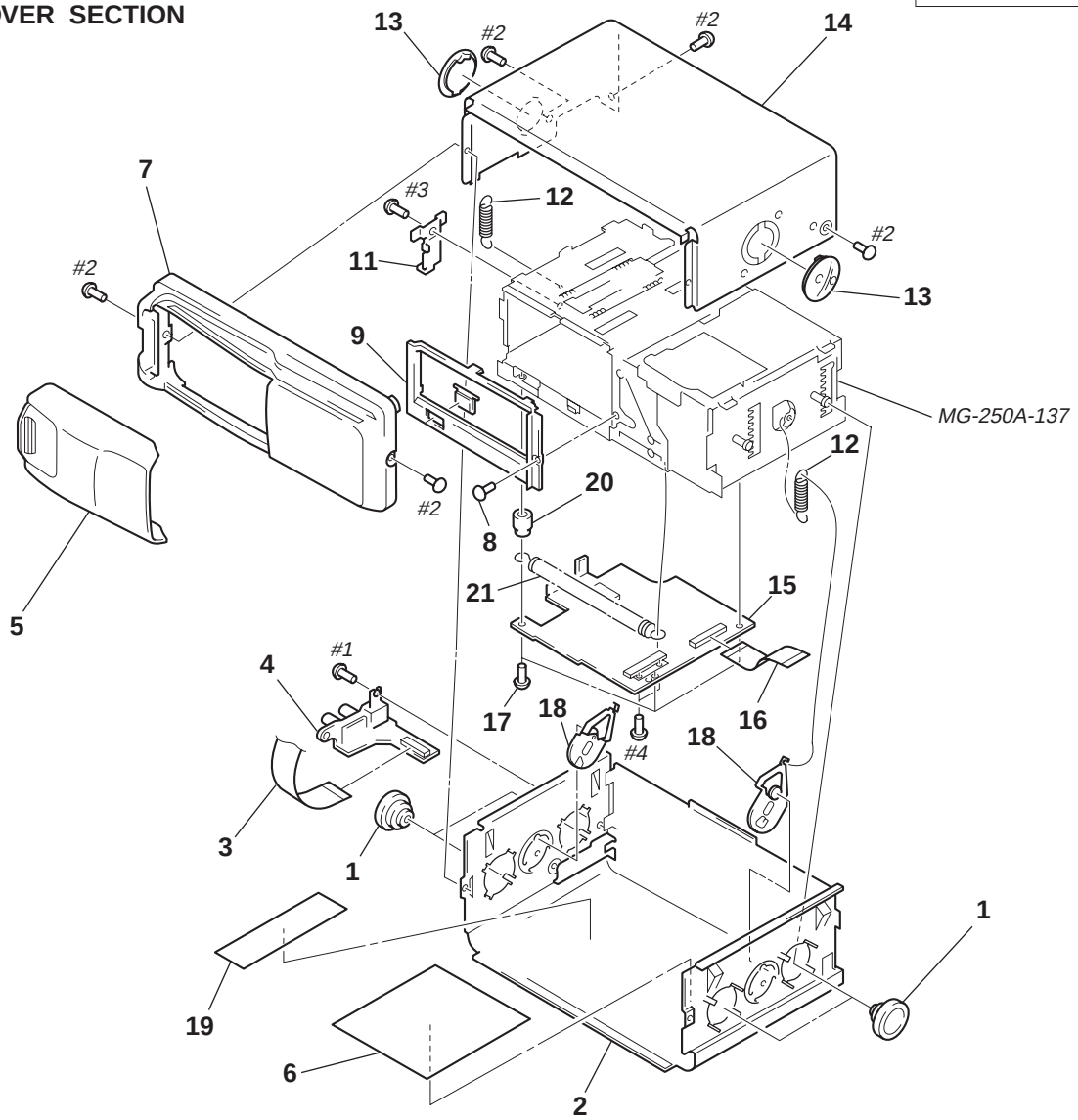
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

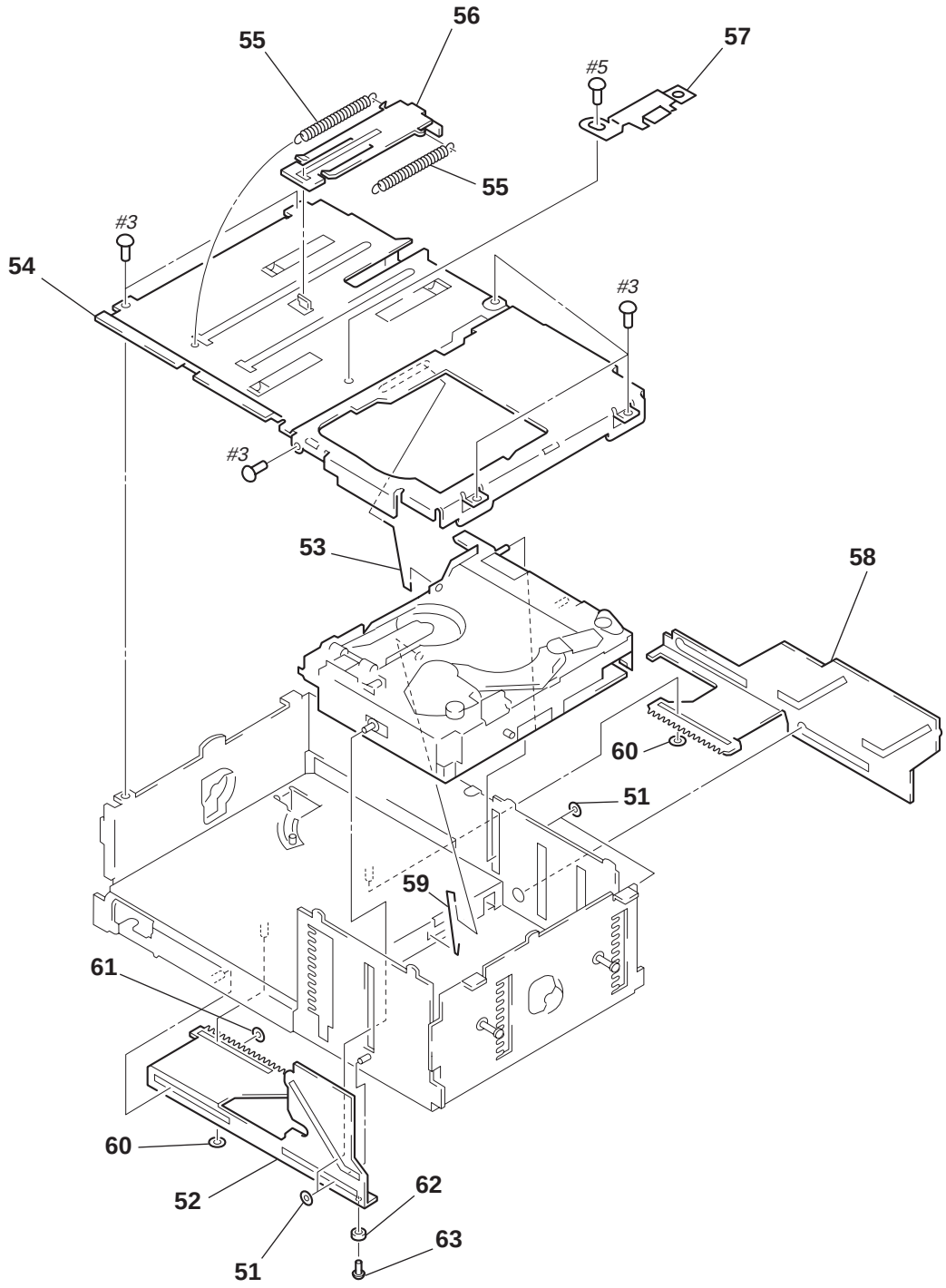
(1) COVER SECTION



Ref. No.	Part No.	Description	Remark
1	3-010-104-01	DAMPER (250)	
* 2	3-010-097-01	COVER (LOWER) (GOLD) (CDX-505RF)	
* 2	3-010-097-21	COVER (LOWER) (BLACK) (EXCD-3RF)	
3	1-664-628-11	JACK FLEXIBLE BOARD	
* 4	1-664-631-11	JACK BOARD	
5	X-3373-217-1	DOOR ASSY (SILVER) (CDX-505RF)	
5	X-3373-488-1	DOOR ASSY (BLACK) (EXCD-3RF)	
* 6	3-012-790-01	SHEET (F), PROTECTION	
7	3-010-098-21	PANEL, FRONT (SILVER) (CDX-505RF)	
7	3-010-098-41	PANEL, FRONT (BLACK) (EXCD-3RF)	
8	3-012-388-01	SCREW (M 2X3)	
* 9	3-010-105-01	ESCUTCHEON	
* 10	3-010-106-01	BUTTON (EJ) (⏏)	

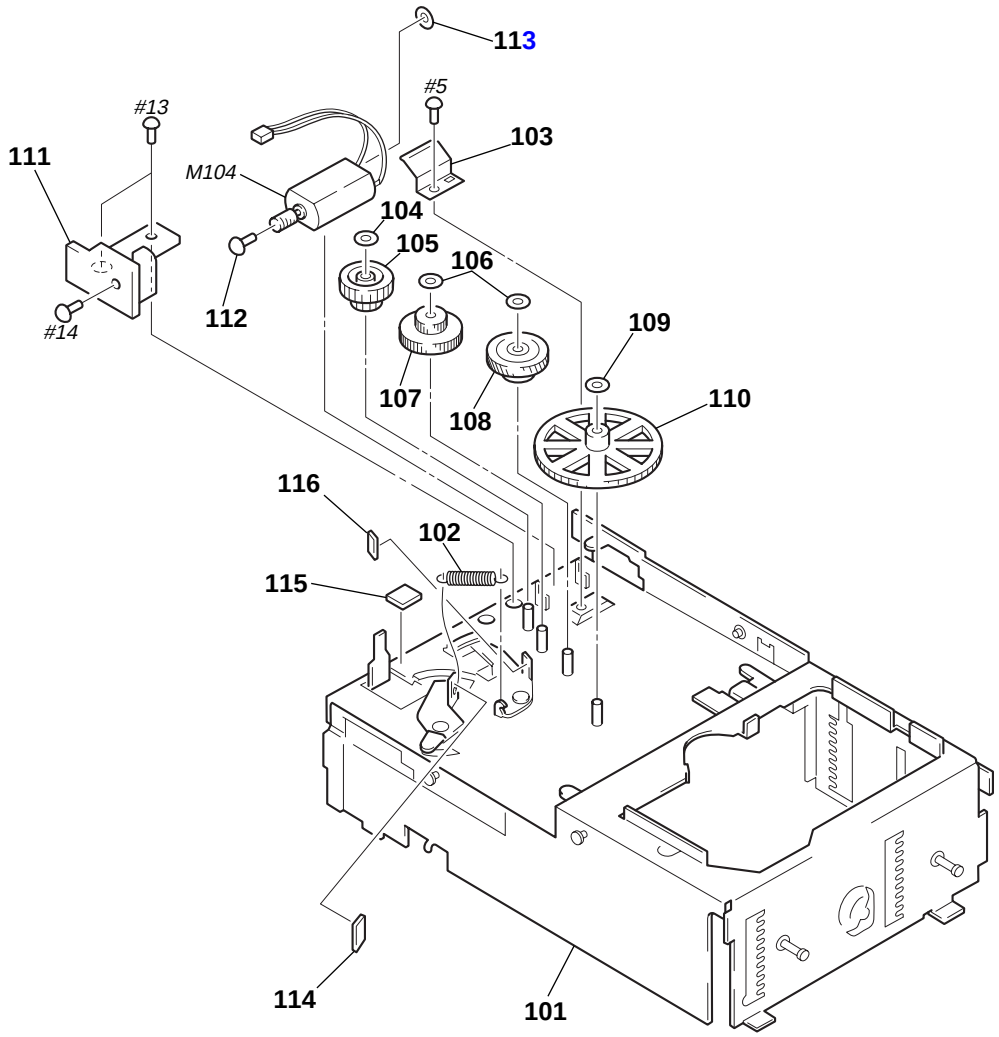
Ref. No.	Part No.	Description	Remark
* 11	3-010-107-01	HEAT SINK	
12	3-010-103-01	SPRING (FL)	
13	3-010-101-01	LEVER (FL) (GOLD) (CDX-505RF)	
13	3-010-101-11	LEVER (FL) (BLACK) (EXCD-3RF)	
* 14	3-010-096-01	COVER (UPPER) (GOLD) (CDX-505RF)	
* 14	3-010-096-21	COVER (UPPER) (BLACK) (EXCD-3RF)	
* 15	A-3309-926-A	MAIN BOARD, COMPLETE	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
17	3-913-406-01	SCREW (GROUND)	
18	X-3373-215-1	ARM (FL) ASSY	
* 19	3-013-658-01	SHEET (FJ), PROTECTION	
* 20	3-014-434-01	COLLAR (PRINT)	
21	3-014-390-01	SPRING (PWM), TENSION	

(2) MECHANISM DECK SECTION-1 (MG-250A-137)



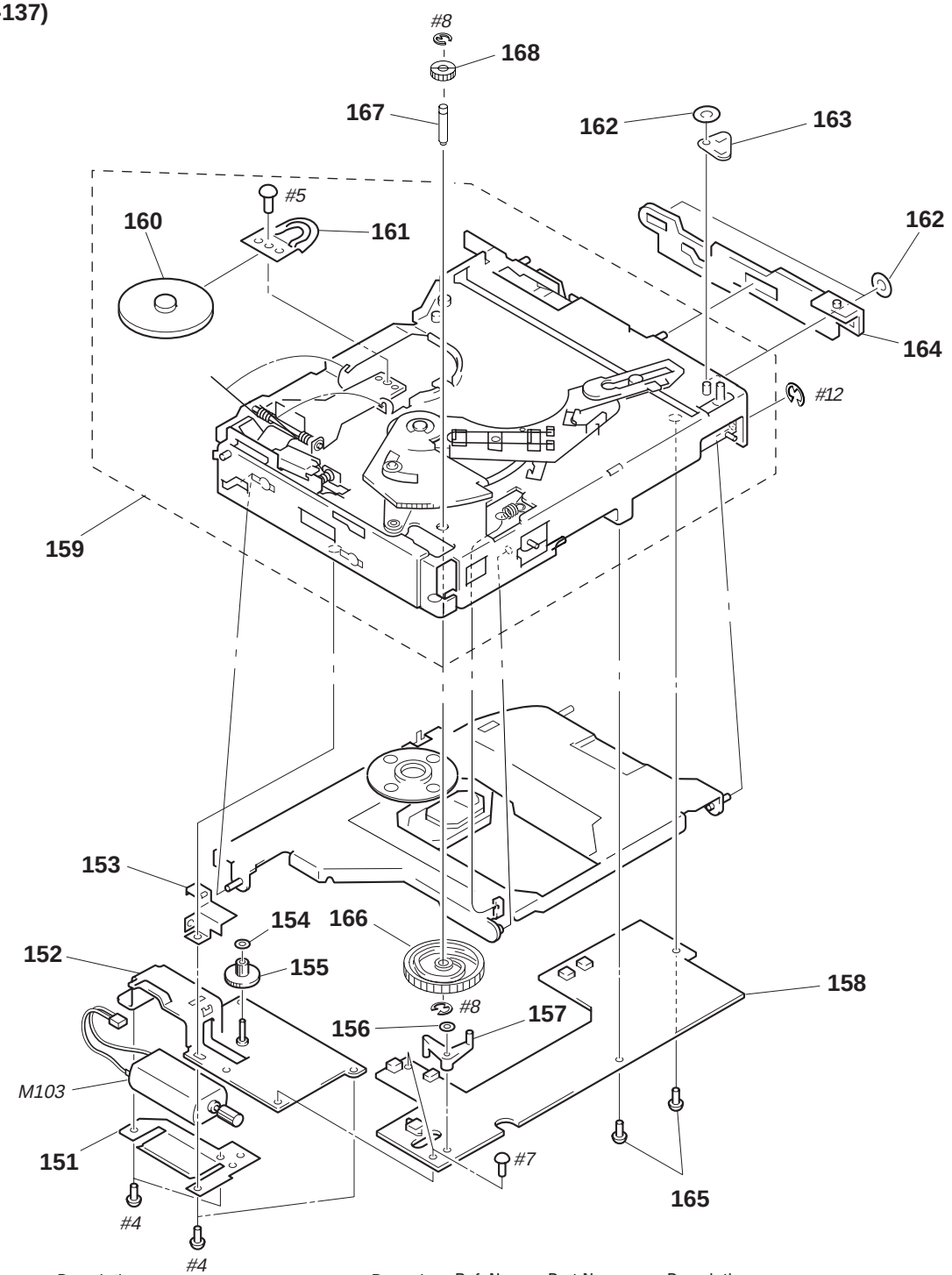
Ref. No.	Part No.	Description	Remark
51	4-965-759-01	WASHER, POLYETHYLENE1	
* 52	X-3373-239-1	SLIDER (R) ASSY	
53	3-010-244-01	SPRING (STOPPER. UPPER)	
* 54	X-3373-243-1	CASE (UPPER) ASSY	
55	3-010-217-01	SPRING (EJECT)	
* 56	3-010-162-01	LEVER (EJECT)	
* 57	3-011-998-01	BRACKET (STOPPER UPPER)	
* 58	3-010-240-01	SLIDER (L)	
59	3-011-997-01	SPRING (STOPPER LOWER)	
60	3-578-224-00	WASHER	
61	3-736-073-01	SLIDER, POLYETHYLENE	
62	3-014-433-01	COLLAR (SLIDER)	
63	3-920-362-01	SCREW (ESCUTCHEON)	

(3) MECHANISM DECK SECTION-2 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 101	X-3373-223-1	CASE (LOWER) ASSY	
102	3-010-266-01	SPRING (STOP LEVER), TENSION	
* 103	3-010-250-01	BRACKET (ELV MOTOR)	
104	3-736-073-01	SLIDER, POLYETHYLENE	
105	3-010-211-01	GEAR (WORM ELV)	
106	3-336-319-01	RING, RETAINING	
107	3-010-175-01	GEAR (ELV 1)	
108	3-010-239-01	GEAR (ELV 2)	
109	3-362-579-01	RING, RETAINING	
110	3-010-249-01	GEAR (ELV 3)	
* 111	3-016-916-01	BRACKET (WORM RETAINER)	
* 112	3-014-681-01	SHAFT (WORM RETAINER)	
* 113	3-014-685-01	SPACER (MO)	
* 114	3-014-389-01	SPACER (LSW)	
* 115	3-014-683-01	SPACER (PB)	
116	3-015-483-00	SPACER	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

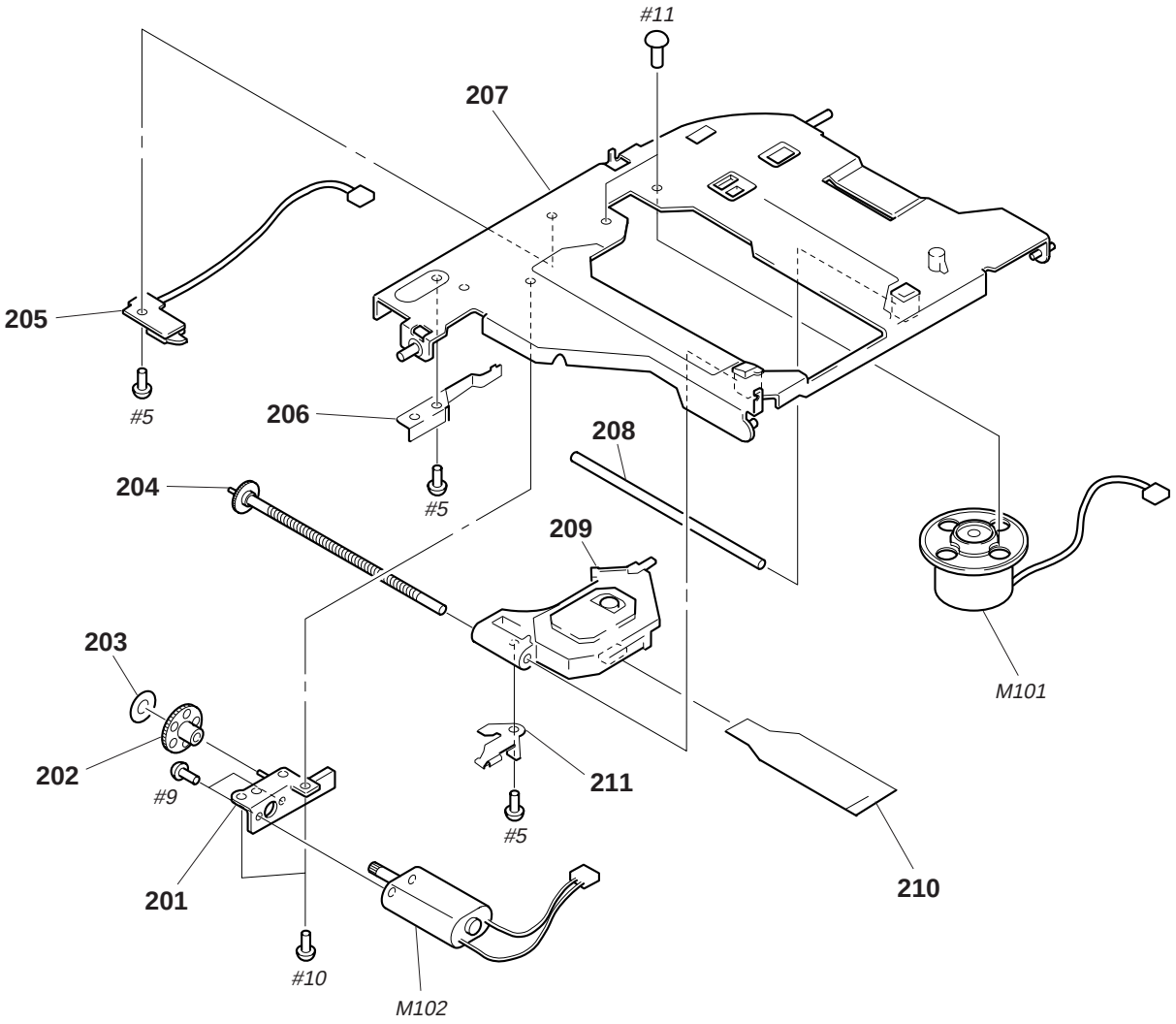
(4) MECHANISM DECK SECTION-3 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 151	3-010-269-01	BRACKET (LOAD MOTOR)	
* 152	X-3373-230-1	BASE (WORM) ASSY	
* 153	3-010-270-01	COVER (MOTOR L)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-010-248-01	GEAR (WORM LOAD 1)	
156	3-573-936-00	STOPPER, REEL	
157	3-010-255-01	ARM (LSW)	
* 158	A-3309-786-A	RF BOARD, COMPLETE	
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)	
160	3-010-242-01	RETAINER (DISC)	

Ref. No.	Part No.	Description	Remark
* 161	3-010-243-01	BRACKET (CP)	
162	3-736-073-01	SLIDER, POLYETHYLENE	
163	3-010-251-01	ARM (CONVERSION AB)	
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY	
165	3-918-103-01	SCREW +P2 × 3	
166	X-3373-552-1	GEAR (LOAD 1) ASSY	
167	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
168	3-010-253-01	GEAR (LO MINI)	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

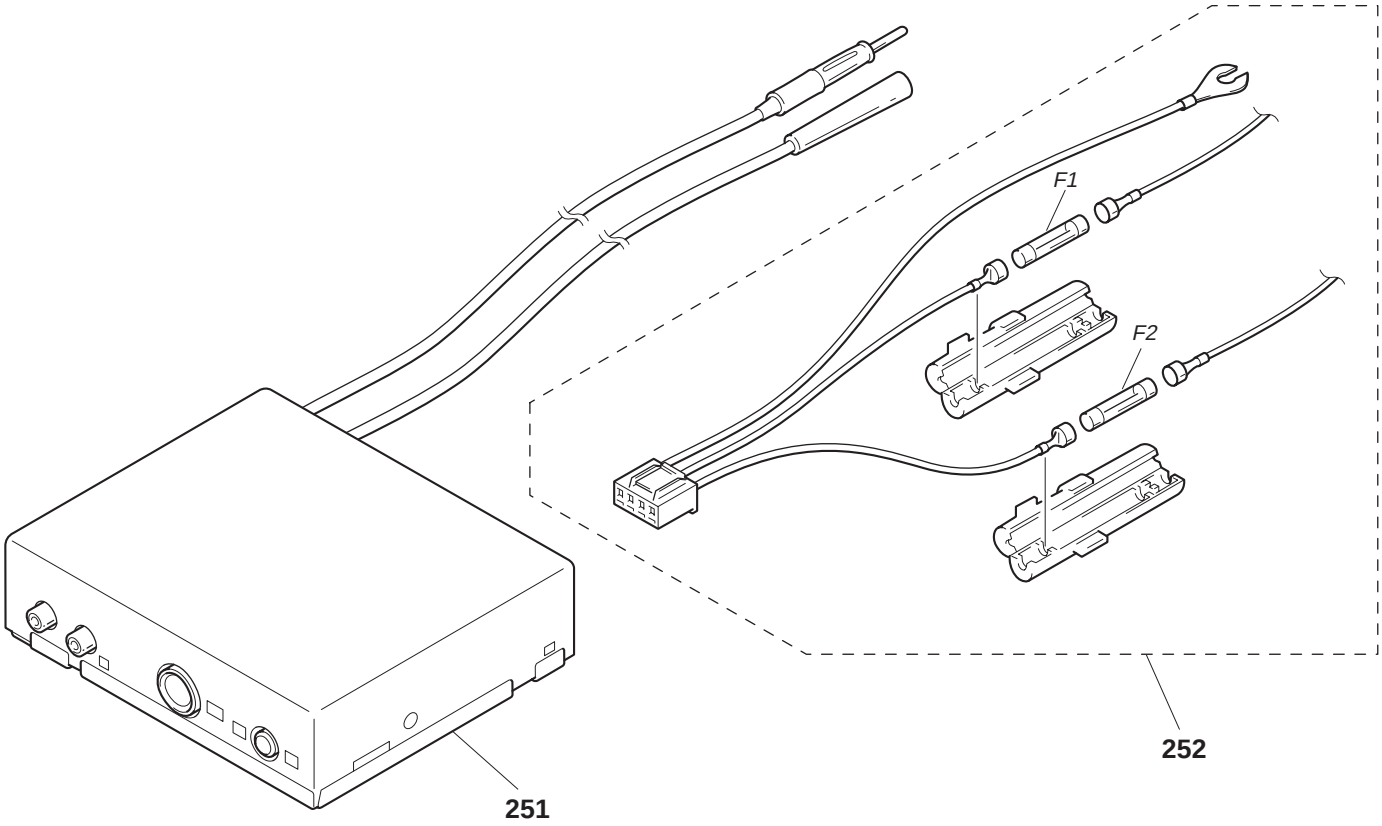
(5) MECHANISM DECK SECTION-4 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
201	X-3373-229-1	BASE (SLED) ASSY	
202	3-010-258-01	GEAR (SLED MID)	
203	3-573-936-00	STOPPER, REEL	
204	A-3291-958-A	SHAFT (SLED) ASSY	
* 205	1-664-104-11	SW BOARD	
206	3-010-263-01	DETENT (SHAFT THRUST)	
* 207	X-3373-225-1	BASE (OP) ASSY	
208	3-010-261-01	SHAFT (GUIDE S)	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
211	3-010-262-01	DETENT (SLED)	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

(6) HIDEAWAY UNIT SECTION



Ref. No.	Part No.	Description	Remark
251	1-473-879-11	RF UNIT (HIDEAWAY) (CDX-505RF)	
251	1-473-881-21	RF UNIT (HIDEAWAY) (EXCD-3RF)	
252	1-777-519-11	CORD (WITH CONNECTOR)	

Ref. No.	Part No.	Description	Remark
F1	1-532-416-00	FUSE (3.15A)	
F2	1-532-360-XX	FUSE (1A)	

SECTION 6
ELECTRICAL PARTS LIST

JACK **MAIN**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	1-664-631-11	JACK BOARD				
		**********				
		< CAPACITOR >				
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C904	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT) (EXCEPT EXCD-3RF:US)				
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS/AUDIO OUT) (EXCD-3RF:US)				
CNJ901	1-778-775-21	CONNECTOR, FPC 13P				
		< FERRITE BEAD >				
FB901	1-500-445-21	BEAD, FERRITE (CHIP)				
FB902	1-500-445-21	BEAD, FERRITE (CHIP)				
FB903	1-500-445-21	BEAD, FERRITE (CHIP)				
		< IC LINK >				
IC901	1-532-686-21	LINK, IC (2.7A)				
**********						
*	A-3309-926-A	MAIN BOARD, COMPLETE				
		**********				
*	3-011-852-01	HOLDER (REG)				
		< CAPACITOR >				
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C103	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C104	1-163-035-00	CERAMIC CHIP	0.047uF		50V	
C105	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C106	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C109	1-126-513-11	ELECT	47uF	20%	6.3V	
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C123	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C124	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C201	1-124-589-11	ELECT	47uF	20%	16V	
C202	1-126-513-11	ELECT	47uF	20%	6.3V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C204	1-115-466-00	ELECT	1000uF	20%	16V	
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C206	1-124-589-11	ELECT	47uF	20%	16V	
C207	1-124-589-11	ELECT	47uF	20%	16V	
C208	1-164-346-11	CERAMIC CHIP	1uF		16V	
C209	1-124-589-11	ELECT	47uF	20%	16V	
C210	1-125-701-11	CAPACITOR	0.047F		5.5V	
C211	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C212	1-164-346-11	CERAMIC CHIP	1uF		16V	
C213	1-164-346-11	CERAMIC CHIP	1uF		16V	
C214	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C303	1-126-513-11	ELECT	47uF	20%	6.3V	
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C401	1-124-589-11	ELECT	47uF	20%	16V	
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C404	1-126-513-11	ELECT	47uF	20%	6.3V	
C405	1-126-513-11	ELECT	47uF	20%	6.3V	
C406	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C407	1-126-157-11	ELECT	10uF	20%	16V	
C408	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C409	1-126-513-11	ELECT	47uF	20%	6.3V	
C410	1-126-157-11	ELECT	10uF	20%	16V	
C411	1-126-157-11	ELECT	10uF	20%	16V	
C412	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	

MAIN

Ref. No.	Part No.	Description	Remark
C415	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C501	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
C502	1-163-029-11	CERAMIC CHIP 0.0047uF 50V	
C503	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CONNECTOR >	
CNJ101	1-770-351-11	CONNECTOR, FPC 26P	
CNJ201	1-770-350-21	CONNECTOR, FPC 13P	
CNP301	1-580-055-21	PIN, CONNECTOR 2P	
		< DIODE >	
D201	8-719-210-33	DIODE EC10DS2	
D202	8-719-210-33	DIODE EC10DS2	
D203	8-719-801-78	DIODE 1SS184	
D204	8-719-422-64	DIODE MA8062-M	
D205	8-719-038-48	DIODE 1SS319 (TE85R)	
D206	8-719-801-78	DIODE 1SS184	
D207	8-719-422-62	DIODE MA8062-L-TX	
D301	8-719-801-78	DIODE 1SS184	
D501	8-719-422-62	DIODE MA8062-L-TX	
D502	8-719-975-40	DIODE RB411D	
D503	8-719-975-40	DIODE RB411D	
D504	8-719-422-62	DIODE MA8062-L-TX	
D505	8-719-975-40	DIODE RB411D	
		< FERRITE BEAD >	
FB101	1-500-445-21	BEAD, FERRITE (CHIP)	
FB102	1-500-445-21	BEAD, FERRITE (CHIP)	
FB103	1-500-445-21	BEAD, FERRITE (CHIP)	
FB111	1-500-445-21	BEAD, FERRITE (CHIP)	
FB401	1-500-445-21	BEAD, FERRITE (CHIP)	
FB411	1-500-445-21	BEAD, FERRITE (CHIP)	
FB412	1-500-445-21	BEAD, FERRITE (CHIP)	
FB413	1-500-445-21	BEAD, FERRITE (CHIP)	
		< IC >	
IC101	8-752-384-15	IC CXD2530Q	
IC201	8-759-054-12	IC PQ09RA1	
IC202	8-759-443-41	IC RH5VL40AA-T1C	
IC203	8-759-324-40	IC KIA7805PI	
IC204	8-759-444-86	IC BA8272F-E2	
IC301	8-759-040-83	IC BA6287F	
IC302	8-752-883-24	IC CXP84124-066Q	
IC401	8-759-327-78	IC TC9404FN-EL	
		< TRANSISTOR >	
Q201	8-729-016-83	TRANSISTOR 2SB1446	
Q202	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
Q301	8-729-020-67	TRANSISTOR XN1A312-TX	
Q401	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q403	8-729-015-39	TRANSISTOR DTC323TK	
Q404	8-729-015-39	TRANSISTOR DTC323TK	
		< RESISTOR >	
R101	1-216-119-00	METAL CHIP 820K 5% 1/10W	
R102	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R104	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R105	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R106	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R108	1-216-295-00	CONDUCTOR, CHIP (2012)	
R111	1-216-295-00	CONDUCTOR, CHIP (2012)	
R112	1-216-295-00	CONDUCTOR, CHIP (2012)	
R113	1-216-295-00	CONDUCTOR, CHIP (2012)	
R201	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R202	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R203	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R204	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R205	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R206	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R207	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R208	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R301	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R302	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R303	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R304	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R305	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R306	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R307	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R308	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R310	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R311	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R312	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R313	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R318	1-216-033-00	METAL CHIP 220 5% 1/10W	
R319	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R321	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R331	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R333	1-216-295-00	CONDUCTOR, CHIP (2012)	
R334	1-216-295-00	CONDUCTOR, CHIP (2012)	
R335	1-216-295-00	CONDUCTOR, CHIP (2012)	
R401	1-216-033-00	METAL CHIP 220 5% 1/10W	
R405	1-216-033-00	METAL CHIP 220 5% 1/10W	
R406	1-216-033-00	METAL CHIP 220 5% 1/10W	

Ref. No.	Part No.	Description				Remark
R407	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R408	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV301	1-223-834-11	RES, ADJ, CARBON 47K				
RV302	1-225-412-11	RES, VAR, SLIDE 10K (ELEVATOR)				
		< SWITCH >				
SW301	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)				
SW302	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)				
SW303	1-571-532-21	SWITCH, TACTIL (⏏)				
		< VIBRATOR >				
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X401	1-767-511-21	VIBRATOR, CERAMIC (16.930MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE **********				
		< CAPACITOR >				
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C25	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	

Ref. No.	Part No.	Description				Remark
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	
		< CONNECTOR >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R26	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R27	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R28	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	

Ver 1.1

RF **SW**

Ref. No.	Part No.	Description			Remark
R32	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R33	1-216-158-00	METAL GLAZE	22	5% 1/8W	
R34	1-216-855-11	METAL CHIP	680K	5% 1/16W	
R35	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R36	1-216-836-11	METAL CHIP	18K	5% 1/16W	
R37	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R38	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R39	1-216-847-11	METAL CHIP	150K	5% 1/16W	
R40	1-218-273-11	METAL GLAZE	510K	5% 1/16W	
R41	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R42	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R43	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R44	1-216-846-11	METAL CHIP	120K	5% 1/16W	
R45	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R46	1-216-847-11	METAL CHIP	150K	5% 1/16W	
R47	1-216-834-11	METAL CHIP	12K	5% 1/16W	
R48	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R49	1-216-101-00	METAL CHIP	150K	5% 1/10W	
R50	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R51	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R52	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R53	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R54	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R55	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R56	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R57	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R58	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R59	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R60	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R61	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R62	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R63	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R64	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R65	1-216-073-00	METAL CHIP	10K	5% 1/10W	
		< VARIABLE RESISTOR >			
RV14	1-225-206-11	RES, ADJ, CERMET 22K			
		< SWITCH >			
SW11	1-762-946-11	SWITCH, PUSH (LOAD IN)			
SW12	1-762-946-11	SWITCH, PUSH (LOAD OUT)			

****

Ref. No.	Part No.	Description	Remark
*	1-664-104-11	SW BOARD	
		********	
		< SWITCH >	
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	
		MISCELLANEOUS	
		**********	
3	1-664-628-11	JACK FLEXIBLE BOARD	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-621-772-08	SCREW +B 2X3	
#4	7-627-553-27	SCREW, PRECISION +P 2X2.5	
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#7	7-628-253-05	+PS 2X4	
#8	7-624-102-04	STOP RING 1.5, TYPE-E	
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3	
#10	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#11	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3	
#12	7-624-104-04	STOP RING 2.0 (E TYPE)	
#13	7-627-553-18	SCREW, PRECISION +P 2X2	
#14	7-621-255-45	SCREW +P 2X6	

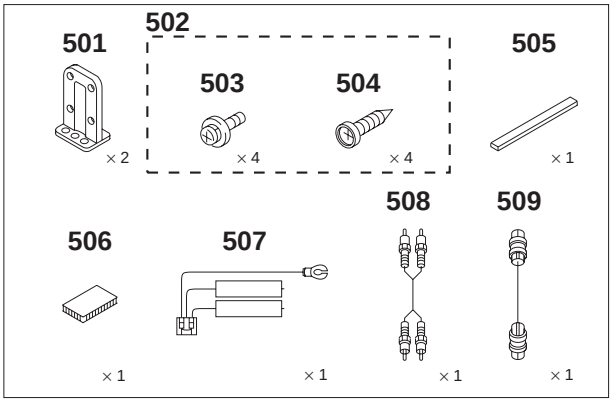
****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-112-71	REMOTE COMMANDER (RF) (RM-X64)	(EXCD-3RF)
	1-473-611-11	REMOTE COMMANDER (RF) (RM-X57)	(CDX-505RF)
	1-473-612-21	REMOTE COMMANDER (RM-X58) (CDX-505RF)	
	3-859-230-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(CDX-505RF: US, Canadian)
	3-859-230-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (CDX-505RF: E)	
	3-859-230-31	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE)	(CDX-505RF: AEP, UK)
	3-859-230-41	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN)	(CDX-505RF: AEP, UK)
	3-859-230-51	MANUAL, INSTRUCTION (GERMAN)	(CDX-505RF: German)
	3-859-391-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(CDX-505RF: US, Canadian)
	3-859-391-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE)	(CDX-505RF: E)
	3-859-391-31	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE)	(CDX-505RF: AEP, UK)
	3-859-391-41	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN)	(CDX-505RF: AEP, UK, German)
	3-859-393-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(EXCD-3RF)
	3-859-394-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(EXCD-3RF)
	4-875-574-00	SHEET, PROTECTION	
	X-3373-241-1	MAGAZINE ASSY	

****

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	3-011-778-01	BRACKET (705)	
* 502	X-3369-824-1	SCREW ASSY	
503	7-682-962-01	SCREW +PSW 4X10	
504	Not supplied		
505	4-875-574-00	SHEET, PROTECTION	
506	4-916-258-01	TAPE, MAGIC (CDX-505RF)	
507	1-777-519-11	CORD (WITH CONNECTOR)	
508	1-590-874-11	CORD, CONNECTION (RCA PIN CORD 5.5m)	
509	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE 5.5m)	



MEMO

CDX-605

SONY

SERVICE MANUAL

AEP Model
UK Model
E Model

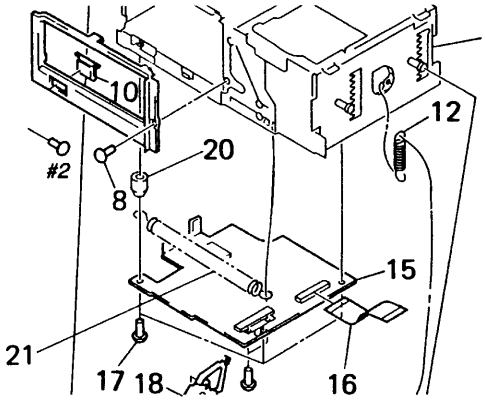
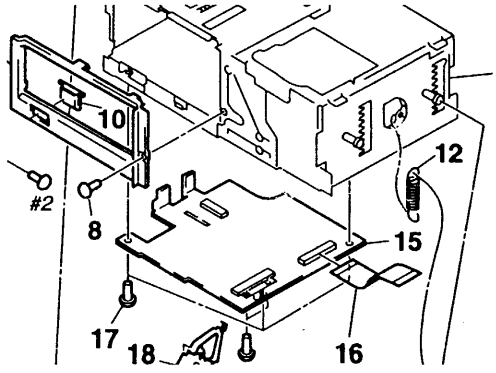
SUPPLEMENT-1

File this supplement with the service manual.

Subject: Main board IC302 Modification

(ECN-CS710015)

IC302 was been changed from CXP84124-066Q to CXP84124-069Q in the midst of production. At the same time, collar (print) and tension spring (PWM) were been deleted.

Page	Former			New		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
39	IC302	8-752-883-24	IC CXP84124-066Q	IC302	8-752-885-12	IC CXP84124-069Q
(1)						
	* 20	3-014-434-01	COLLAR (PRINT)	——— deleted ———		
	21	3-014-390-01	SPRING (PWM), TENSION	——— deleted ———		

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Pages marked "( )" are indicated SERVICE MANUAL CORRECTION-1.

MEMO

CDX-505RF/EXCD-3RF

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-505RF/EXCD-3RF
AEP Model
UK Model
E Model
CDX-505RF

SUPPLEMENT-2

File this supplement with the service manual.

Subject:
1. Installation
2. Mechanical Adjustments
3. Cord (with connector) (for RF Unit) Modification
4. Board Modification

(ECN-CS701551)

TABLE OF CONTENTS

1. Installation 2

2. Mechanical Adjustments 6

3. Cord (with connector) (for RF Unit) Modification 7

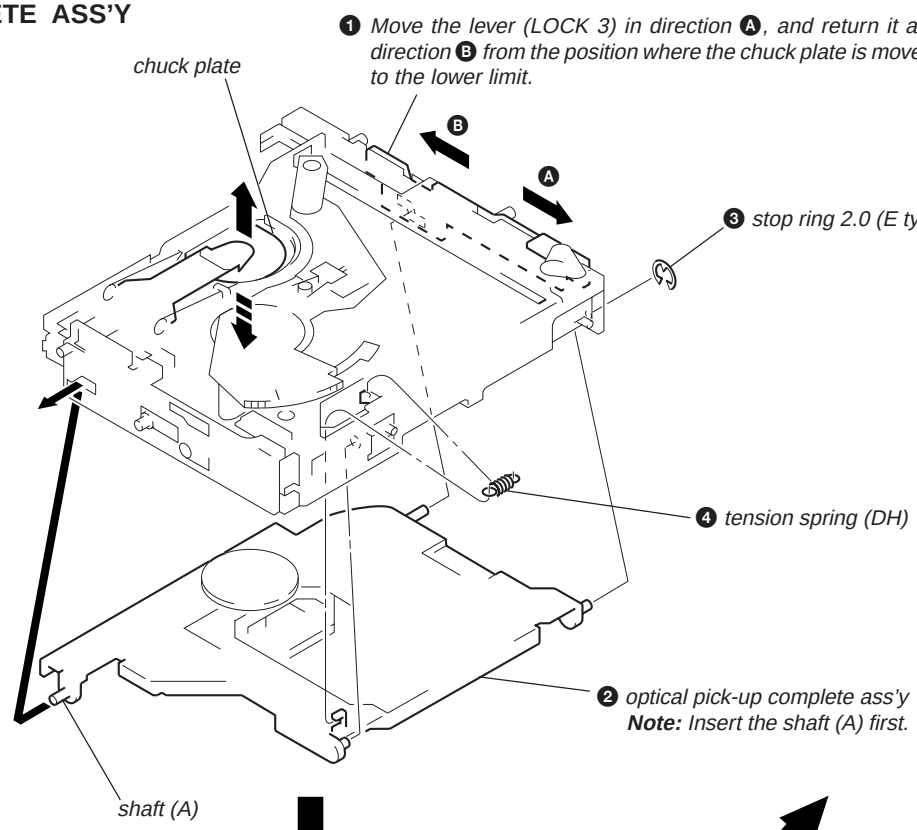
4. Board Modification

4-1. New/Former Discrimination 8
4-2. Printed Wiring Boards –MAIN Section– 9
4-3. Schematic Diagram –MAIN Section– 13
4-4. Printed Wiring Boards –RF Section– 17
4-5. Schematic Diagram –RF Section– 19
4-6. Electrical Parts List 21

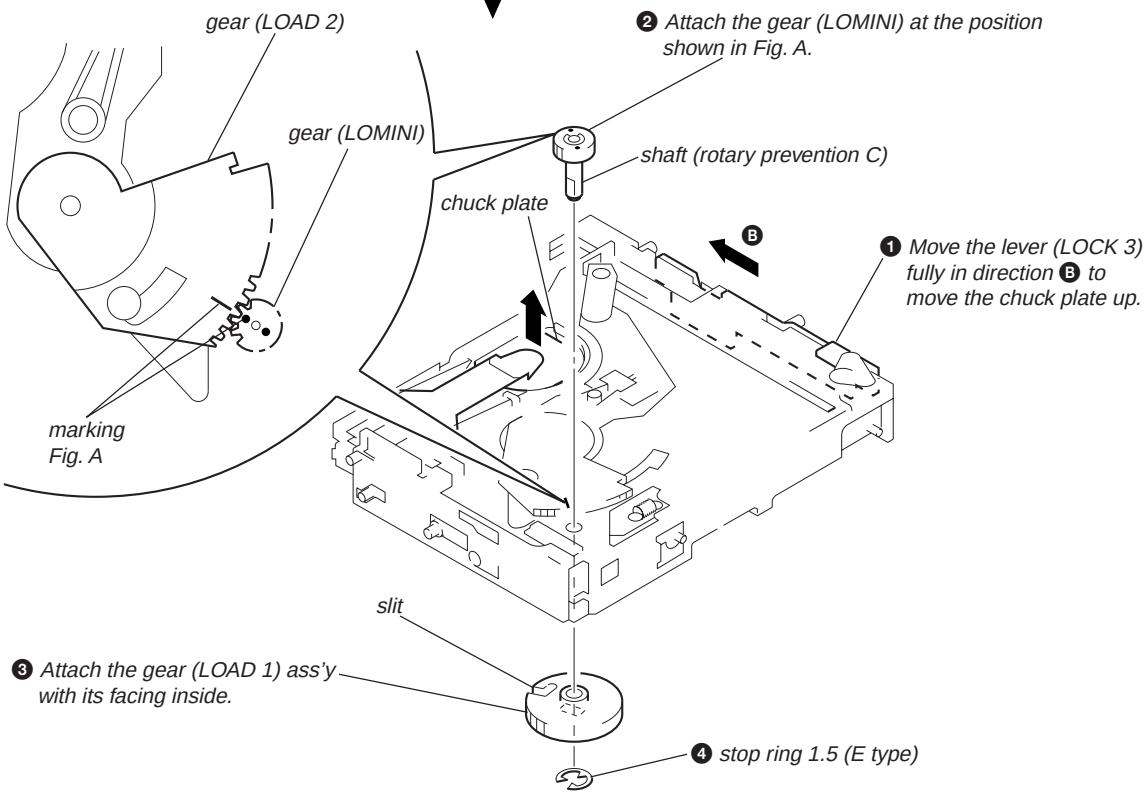
1. INSTALLATION

Note: Follow the assembly procedure in the numerical order given.

OPTICAL PICK-UP COMPLETE ASS'Y

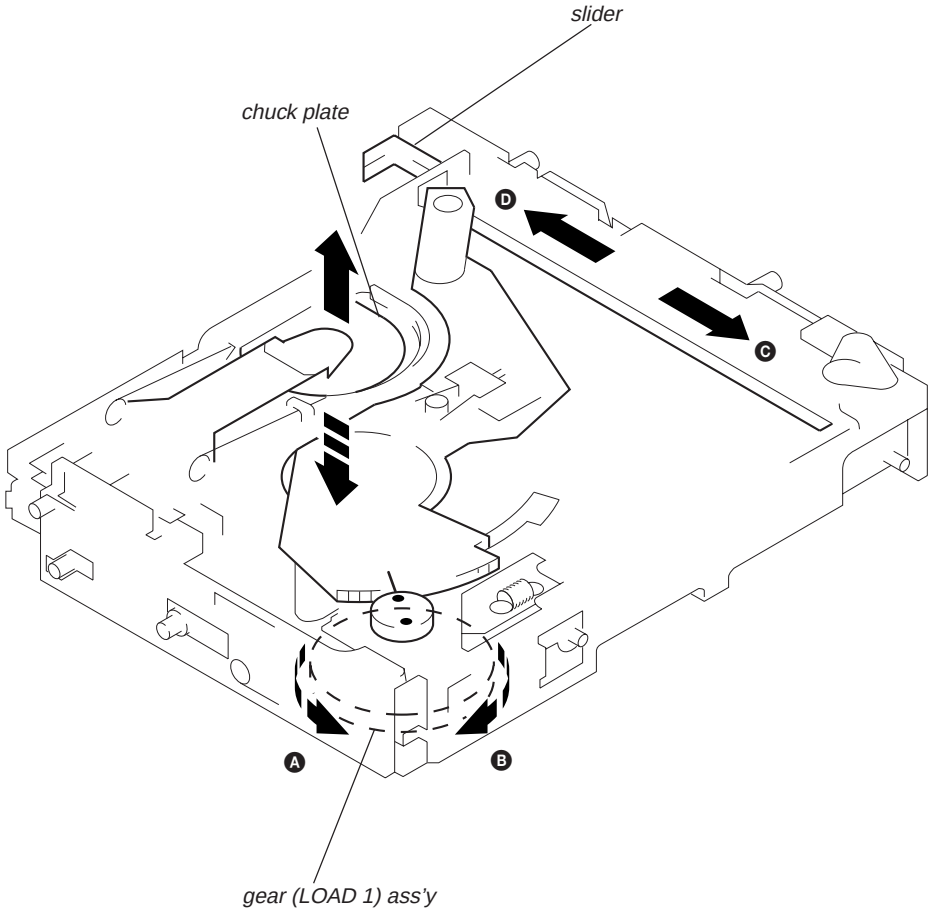

❶ Move the lever (LOCK 3) in direction Ⓐ, and return it a little in direction Ⓑ from the position where the chuck plate is moved down to the lower limit.
chuck plate
Ⓑ
Ⓐ
❸ stop ring 2.0 (E type)
❹ tension spring (DH)
❷ optical pick-up complete ass'y
Note: Insert the shaft (A) first.
shaft (A)

GEAR (LOMINI) / (LOAD 1) ASS'Y

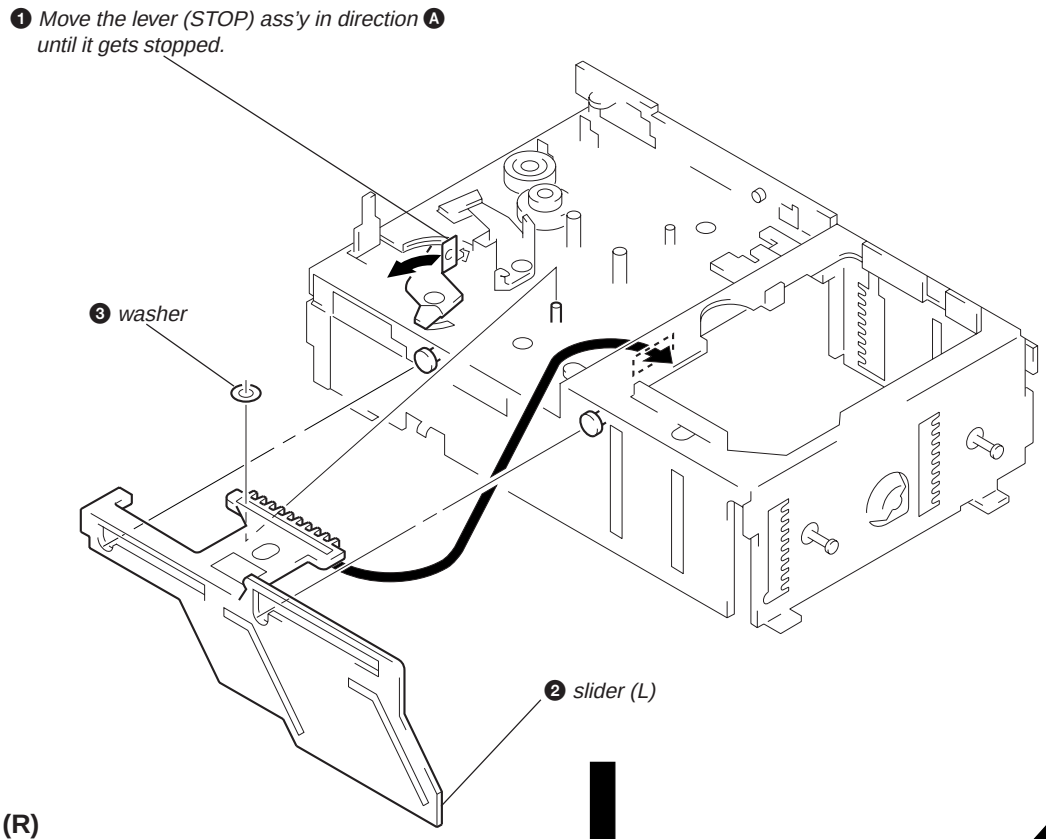

gear (LOAD 2)
❷ Attach the gear (LOMINI) at the position shown in Fig. A.
gear (LOMINI)
shaft (rotary prevention C)
chuck plate
Ⓑ
❶ Move the lever (LOCK 3) fully in direction Ⓑ to move the chuck plate up.
marking
Fig. A
slit
❸ Attach the gear (LOAD 1) ass'y with its facing inside.
❹ stop ring 1.5 (E type)

OPERATION CHECK

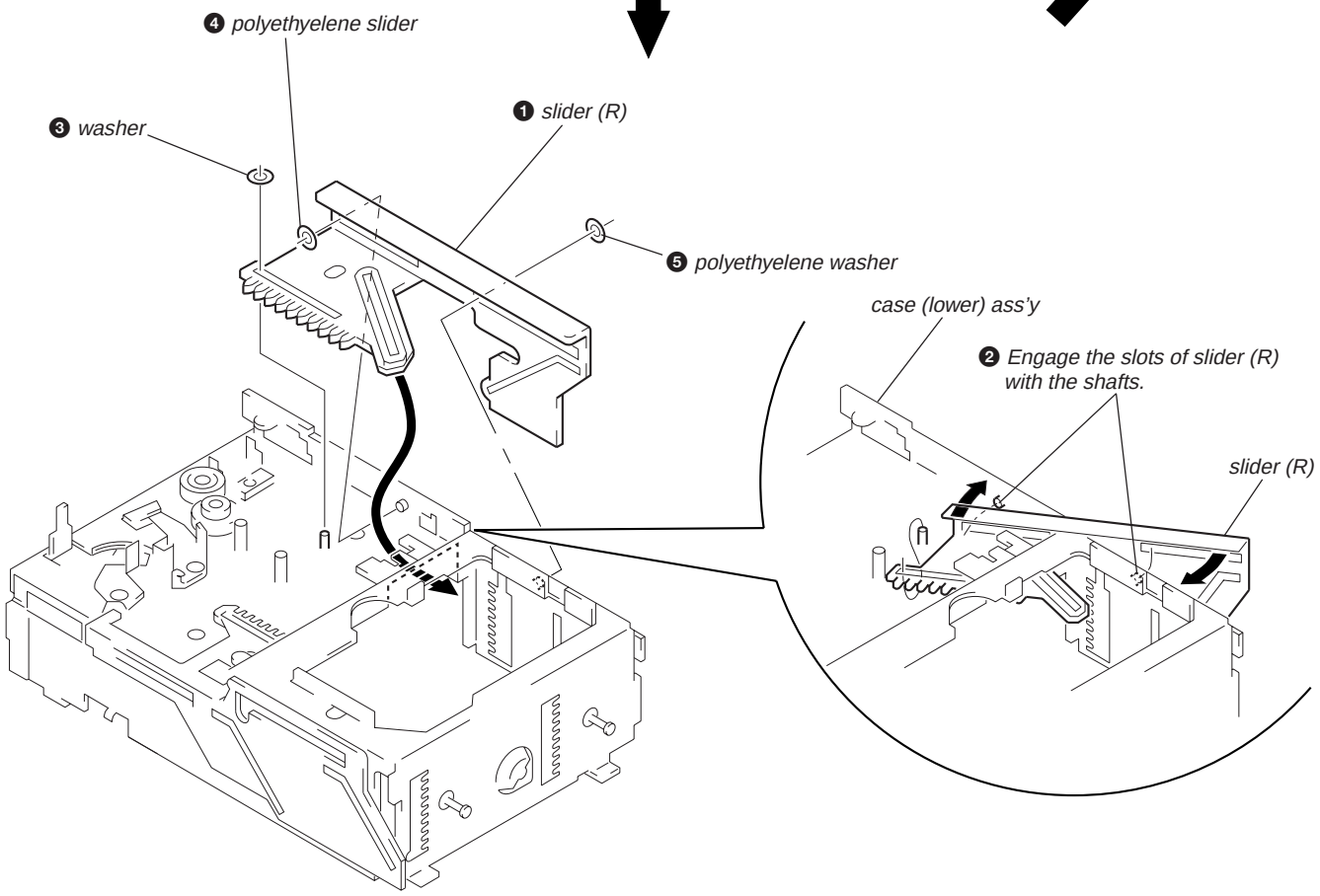
❶ *Confirm that the slider moves in direction Ⓒ to move down the chuck plate if the gear (LOAD 1) is rotated in direction Ⓐ or the chuck plate moves up and the slider moves in direction Ⓓ if the gear is rotated in direction Ⓑ.*



SLIDER (L)

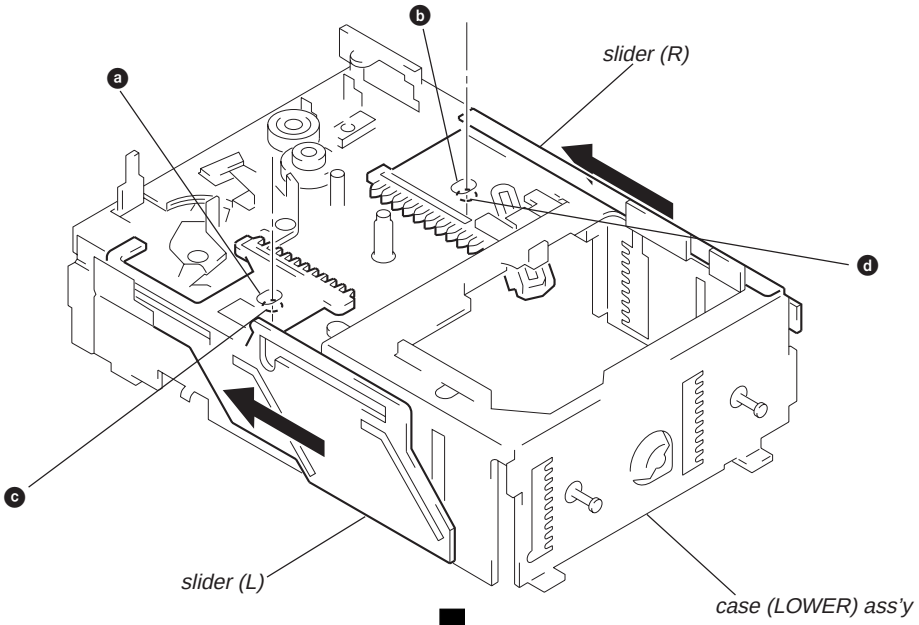


slider (R)

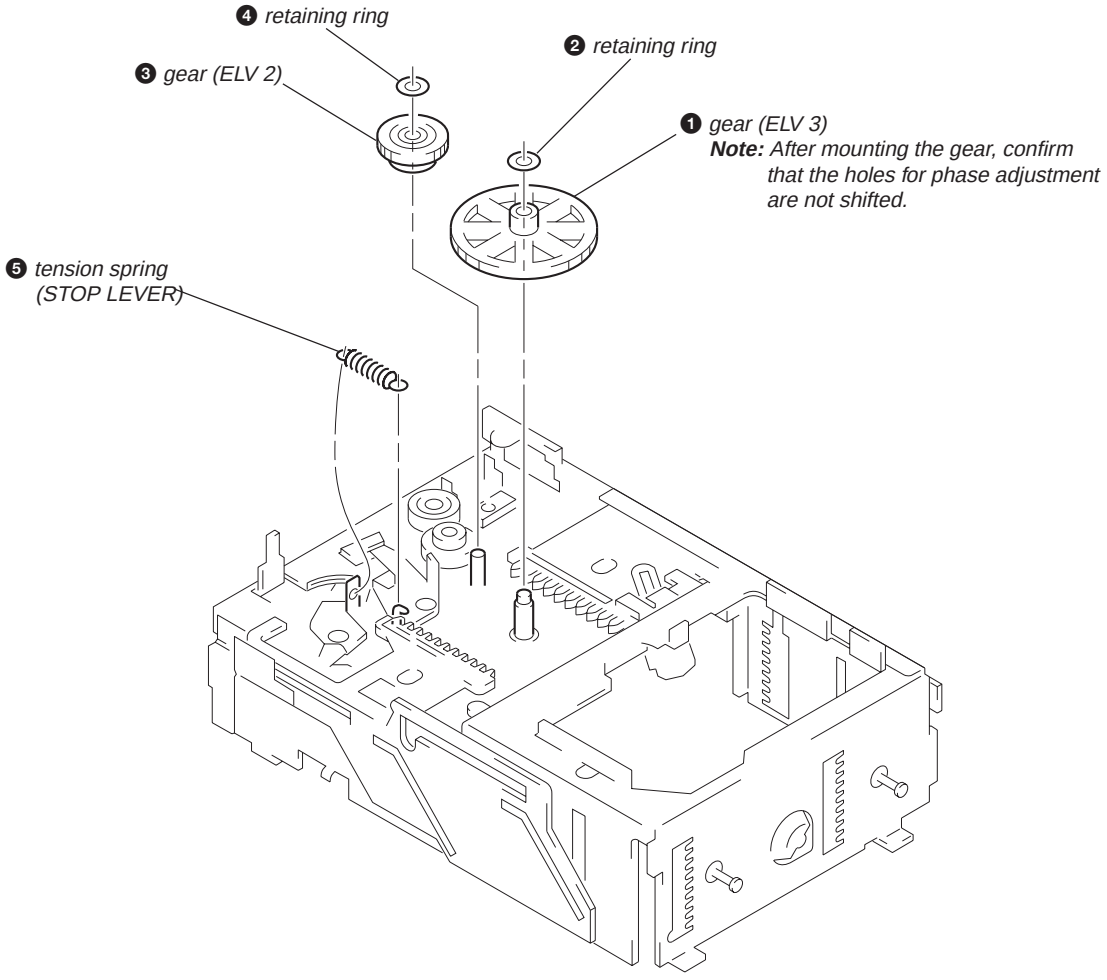


ADJUSTING PHASE OF SLIDERS (L, R)

❶ *Sliding the sliders (L, R) in the arrow direction, meet holes* ⓐ *and* ⓑ *of the sliders (L, R) with holes* ⓒ *and* ⓓ *of the case (LOWER) ass'y.*



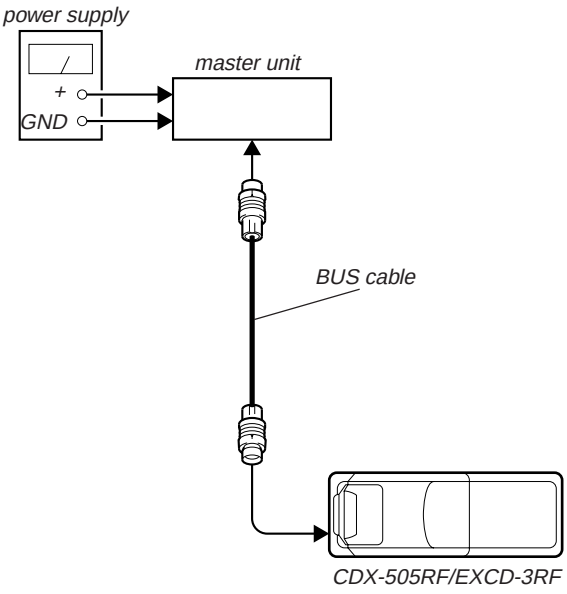
GEAR (ELV2) / (ELV3)


❹ retaining ring
❷ retaining ring
❸ gear (ELV 2)
❶ gear (ELV 3)
Note: After mounting the gear, confirm that the holes for phase adjustment are not shifted.
❺ tension spring (STOP LEVER)

2. MECHANICAL ADJUSTMENTS
Elevator Height (Address) Adjustment

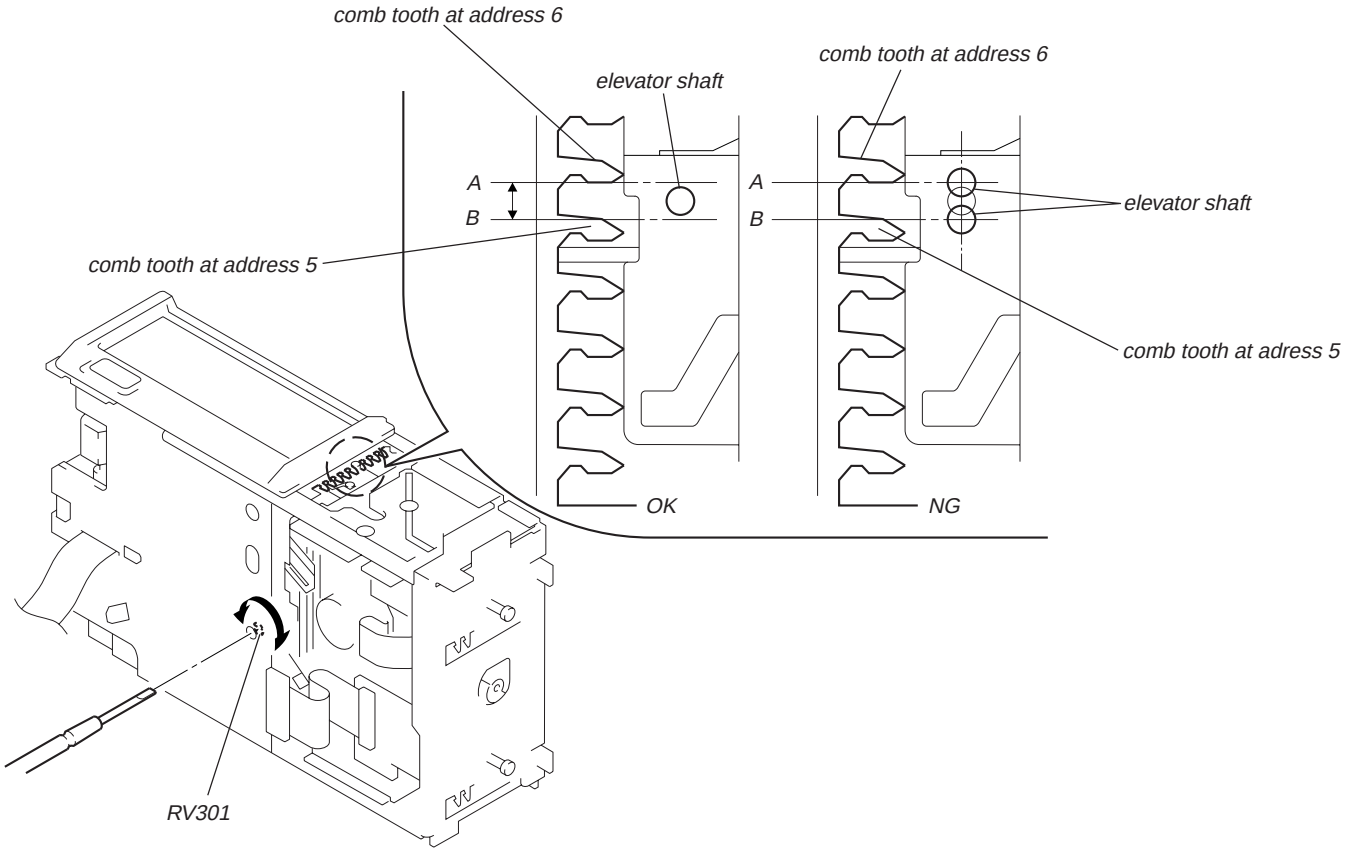
Note: This adjustments is necessary when the system controller (IC302), variable resistor (RV301), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



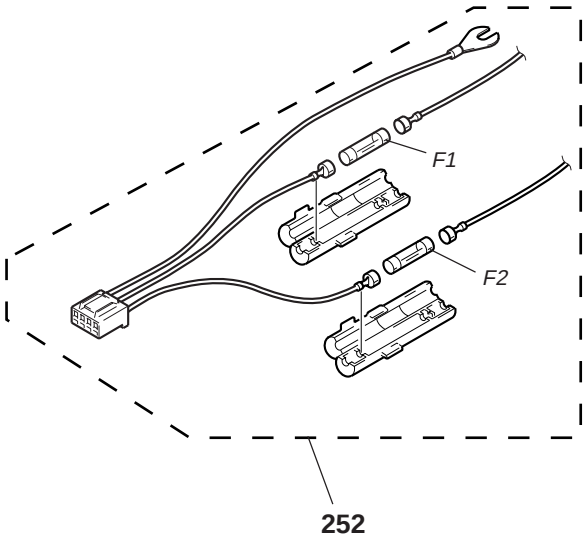
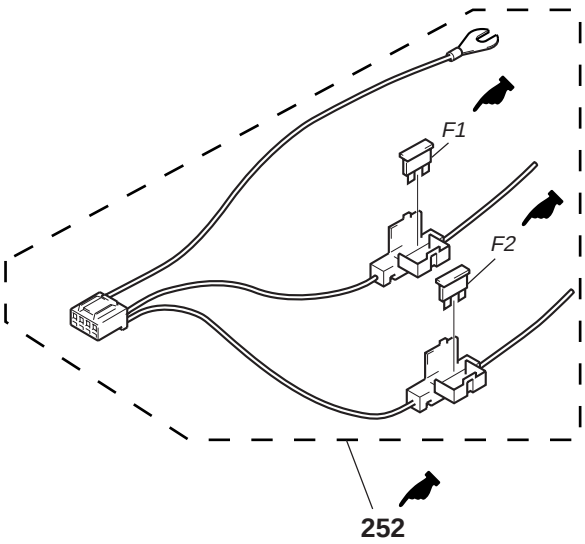
Adjustment Method:

1. Connect this set to the master unit (e.g. MDX-C670/C670RDS), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and – buttons on the master unit so that the elevator shafts moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV301 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.



3. CORD (WITH CONNECTOR) (FOR RF UNIT) MODIFICATION

☛ : Indicates changed portion.

<table>
<tr><th>Page</th><th>Former Type</th><th>New Type</th></tr>
<tr><td>40</td><td> 
</td><td> 
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<table>
<tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr>
<tr><td>252</td><td>1-777-519-11</td><td>CORD (WITH CONNECTOR)</td></tr>
<tr><td>F1</td><td>1-532-416-00</td><td>FUSE (3.15 A)</td></tr>
<tr><td>F2</td><td>1-532-360-XX</td><td>FUSE (1A)</td></tr>
</table>
</td><td>
<table>
<tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr>
<tr><td>252</td><td>1-777-519-12</td><td>CORD (WITH CONNECTOR) (POWER) ☛</td></tr>
<tr><td>F1</td><td>1-532-731-11</td><td>FUSE (BLADE TYPE) (AUTO FUSE) (3A/32V) ☛</td></tr>
<tr><td>F2</td><td>1-532-798-11</td><td>FUSE (BLADE TYPE) (AUTO FUSE) (1A/32V) ☛</td></tr>
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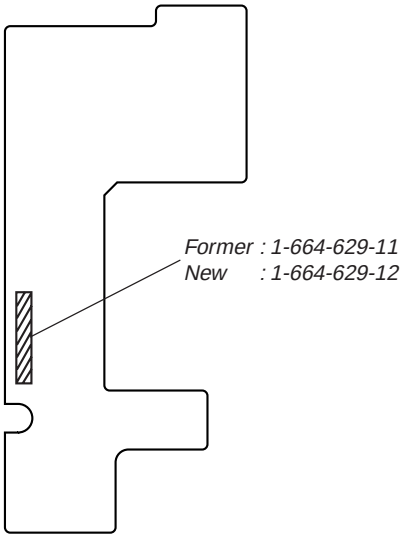
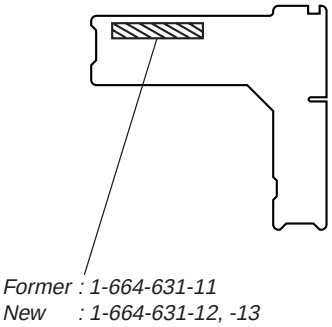
4. BOARD MODIFICATION

4-1. NEW/FORMER DISCRIMINATION

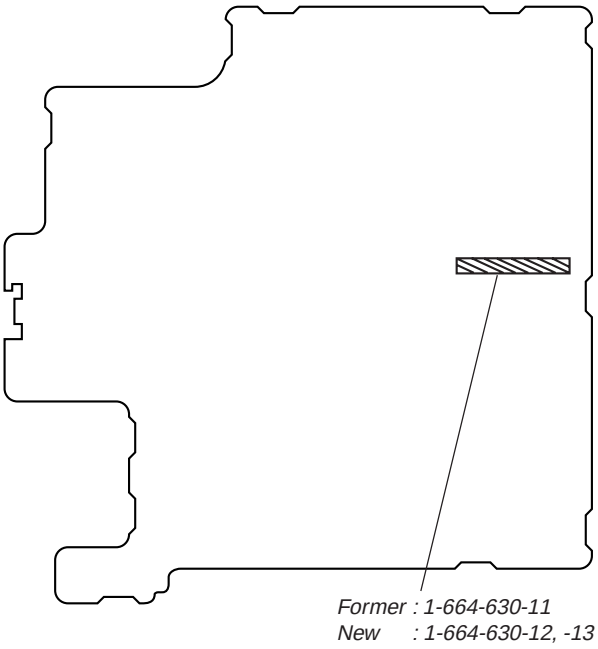
[RF BOARD] – Conductor Side –



[JACK BOARD] – Conductor Side –



[MAIN BOARD] – Component Side –



• **Semiconductor Location**

Ref. No.	Location
D201	D-10
D202	D-10
D203	F-11
D204	F-11
D205	F-10
D206	F-10
D207	F-9
D301	H-13
D311	G-11
D501	H-12
D502	G-12
D503	G-12
D504	G-12
D505	H-12
IC101	D-15
IC201	F-25
IC202	I-13
IC203	E-25
IC204	G-12
IC301	H-14
IC302	H-14
IC401	D-13
Q201	E-25
Q202	C-10
Q203	F-11
Q204	H-12
Q205	F-10
Q301	G-15
Q401	E-12
Q402	E-12
Q403	D-11
Q404	D-11

Note on Printed Wiring Board:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

- Abbreviation
  CND : Canadian
  G : German
  TW : Taiwan

【JACK BOARD】 (COMPONENT SIDE)

【JACK BOARD】 (CONDUCTOR SIDE)

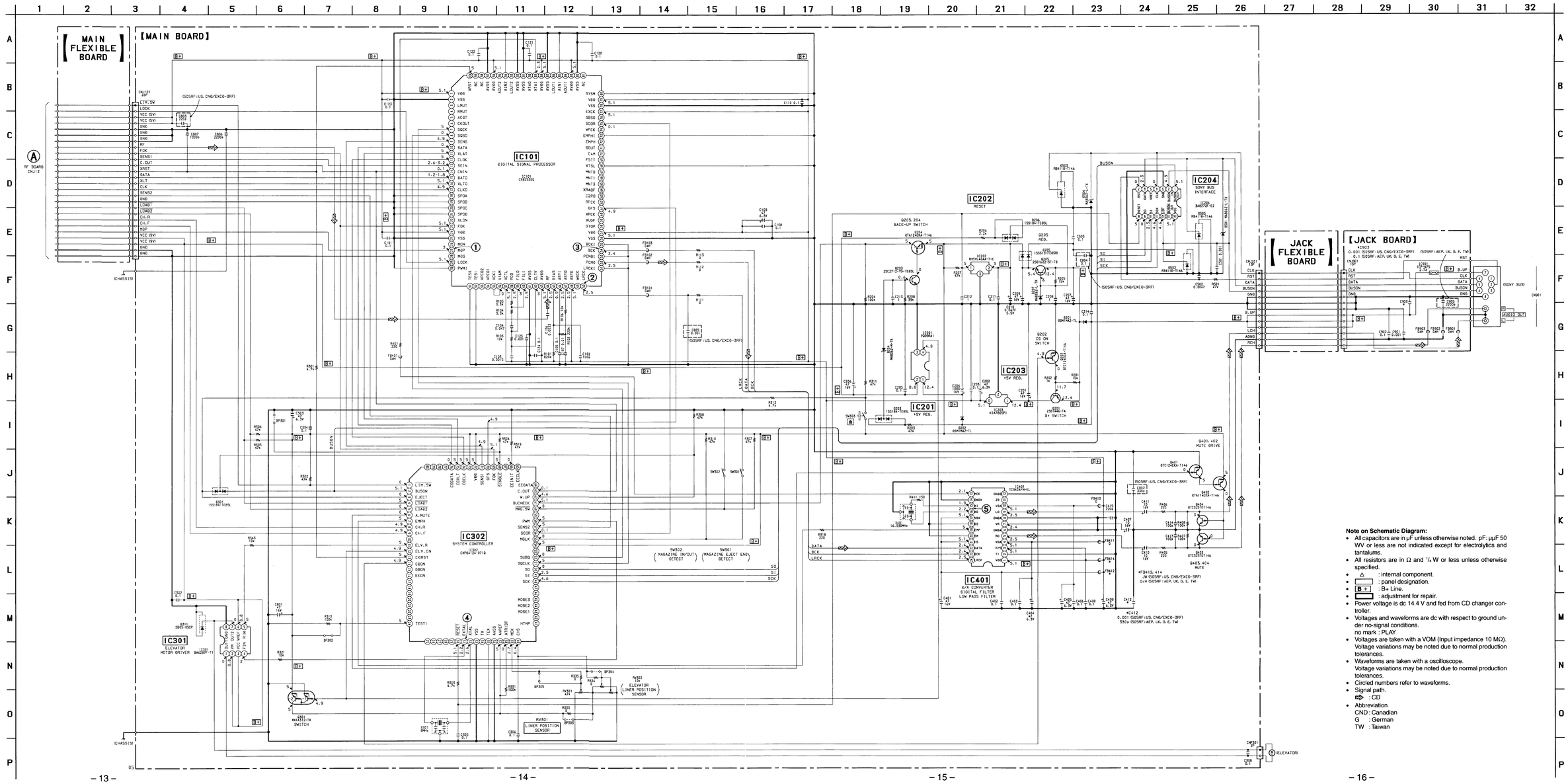
【JACK FLEXIBLE BOARD】 I-664-628- 11

【MAIN BOARD】 (COMPONENT SIDE)

【MAIN FLEXIBLE BOARD】 I-664-627- 11

【MAIN BOARD】 (CONDUCTOR SIDE)

4-3. SCHEMATIC DIAGRAM – MAIN Section –



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4 V and fed from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▶▶ : CD
- Abbreviation
  CND : Canadian
  G : German
  TW : Taiwan

4-4. PRINTED WIRING BOARDS – RF Section –

• **Semiconductor Location**

Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6

Note on Printed Wiring Board:

- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

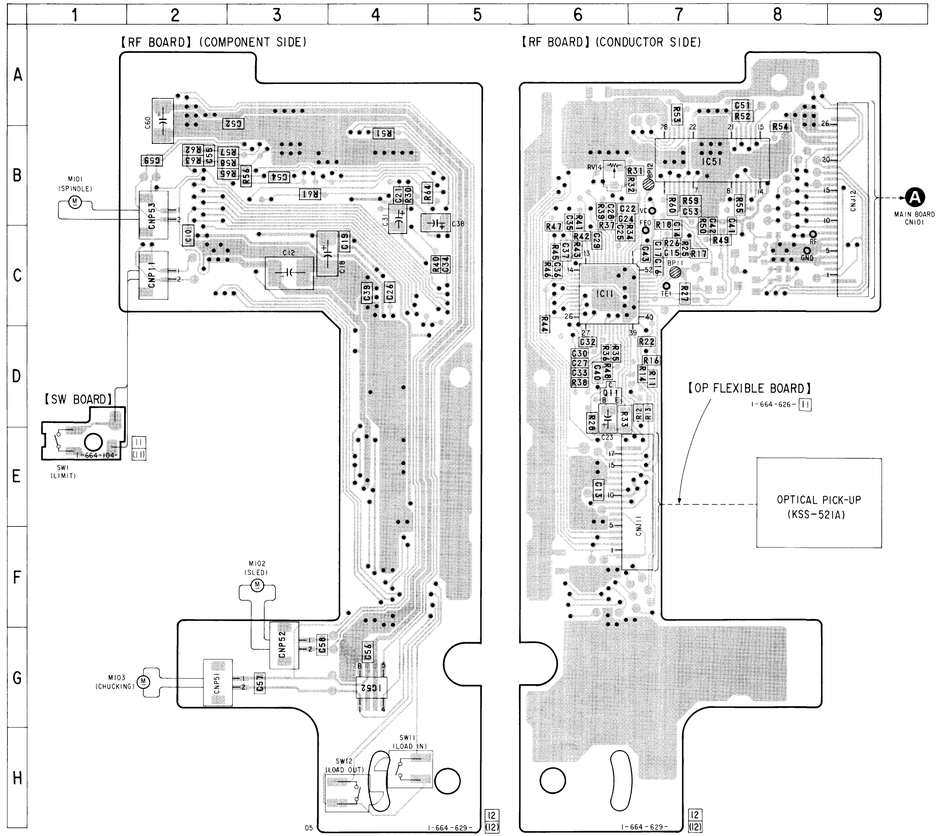
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:

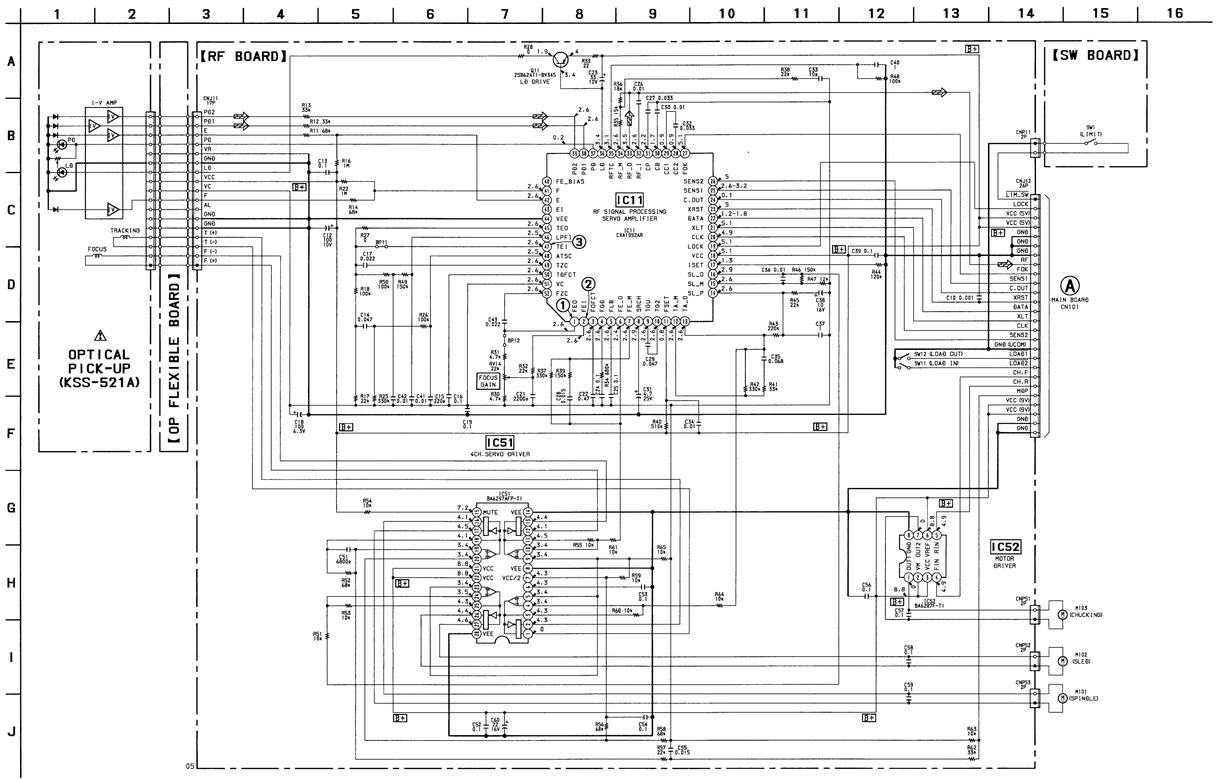
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD



4-5. SCHEMATIC DIAGRAM – RF Section –



4-6. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian
  G : German
  TW : Taiwan
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	1-664-631-13	JACK BOARD				
		**********				
		< CAPACITOR >				
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-505RF: US, CND/EXCD-3RF)
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
						(CDX-505RF: AEP, UK, G, E, TW)
C905	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
						(CDX-505RF: AEP, UK, G, E, TW)
		< CONNECTOR >				
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)				
						(CDX-505RF)
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)				
						(EXCD-3RF)
CNJ901	1-778-775-21	CONNECTOR, FPC 13P				
		< FERRITE BEAD >				
FB901	1-500-445-21	INDUCTOR	0uH			
FB902	1-500-445-21	INDUCTOR	0uH			
FB903	1-500-445-21	INDUCTOR	0uH			
		< IC LINK >				
IC901	1-532-686-21	LINK, IC				
**********						
*	A-3313-217-A	MAIN BOARD, COMPLETE				
						(CDX-505RF: AEP, UK, G, E, TW)
*	A-3313-227-A	MAIN BOARD, COMPLETE				
						(CDX-505RF: US, CND/EXCD-3RF)
		**********				
*	3-012-099-01	HOLDER (TR2)				
		< CAPACITOR >				
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C103	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C104	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C106	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C109	1-126-513-11	ELECT	47uF	20%	6.3V	
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C123	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C124	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C201	1-124-589-11	ELECT	47uF	20%	16V	
C202	1-126-513-11	ELECT	47uF	20%	6.3V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C204	1-115-466-00	ELECT	1000uF	20%	16V	
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C206	1-124-589-11	ELECT	47uF	20%	16V	
C207	1-124-589-11	ELECT	47uF	20%	16V	
C208	1-164-346-11	CERAMIC CHIP	1uF		16V	
C209	1-124-589-11	ELECT	47uF	20%	16V	
C210	1-125-701-11	CAPACITOR	0.047F		5.5V	
C211	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C212	1-164-346-11	CERAMIC CHIP	1uF		16V	
C213	1-164-346-11	CERAMIC CHIP	1uF		16V	
C214	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C303	1-126-513-11	ELECT	47uF	20%	6.3V	
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C401	1-124-589-11	ELECT	47uF	20%	16V	
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C404	1-126-513-11	ELECT	47uF	20%	6.3V	
C405	1-126-513-11	ELECT	47uF	20%	6.3V	
C406	1-163-038-00	CERAMIC CHIP	0.1uF		25V	

MAIN

Ref. No.	Part No.	Description				Remark
C407	1-126-157-11	ELECT	10uF	20%	16V	
C408	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C409	1-126-513-11	ELECT	47uF	20%	6.3V	
C410	1-126-157-11	ELECT	10uF	20%	16V	
C411	1-126-157-11	ELECT	10uF	20%	16V	
C412	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-505RF: US, CND/EXCD-3RF)
C412	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
						(CDX-505RF: AEP, UK, G, E, TW)
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C415	1-163-259-00	CERAMIC CHIP	220PF	5%	50V	
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C502	1-163-029-11	CERAMIC CHIP	0.0047uF		50V	
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C801	1-104-823-11	TANTAL. CHIP	47uF	20%	16V	
C802	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
						(CDX-505RF: US, CND/EXCD-3RF)
C803	1-163-259-00	CERAMIC CHIP	220PF	5%	50V	
						(CDX-505RF: US, CND/EXCD-3RF)
C804	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
						(CDX-505RF: US, CND/EXCD-3RF)
C805	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
						(CDX-505RF: US, CND/EXCD-3RF)
C806	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C807	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
CNJ101	1-770-351-11	CONNECTOR, FPC 26P				
CNJ201	1-770-350-21	CONNECTOR, FPC 13P				
CNP301	1-580-055-21	PIN, CONNECTOR 2P				
		< DIODE >				
D201	8-719-210-33	DIODE EC10DS2				
D202	8-719-210-33	DIODE EC10DS2				
D203	8-719-801-78	DIODE 1SS184				
D204	8-719-422-64	DIODE MA8062-M				
D205	8-719-038-48	DIODE 1SS319(TE85R)				
D206	8-719-801-78	DIODE 1SS184				
D207	8-719-422-62	DIODE MA8062-L-TX				
D301	8-719-801-78	DIODE 1SS184				
D311	8-719-938-75	DIODE SB05-05CP				
D501	8-719-422-62	DIODE MA8062-L-TX				
D502	8-719-975-40	DIODE RB411D				
D503	8-719-975-40	DIODE RB411D				
D504	8-719-422-62	DIODE MA8062-L-TX				
D505	8-719-975-40	DIODE RB411D				
		< FERRITE BEAD >				
FB101	1-500-445-21	INDUCTOR 0uH				
FB102	1-500-445-21	INDUCTOR 0uH				
FB103	1-500-445-21	INDUCTOR 0uH				
FB401	1-500-445-21	INDUCTOR 0uH				
FB411	1-216-295-00	CONDUCTOR, CHIP (2012)				
FB412	1-216-295-00	CONDUCTOR, CHIP (2012)				
						(CDX-505RF: US, CND/EXCD-3RF)
FB412	1-500-445-21	INDUCTOR 0uH				
						(CDX-505RF: AEP, UK, G, E, TW)
FB413	1-216-295-00	CONDUCTOR, CHIP (2012)				
FB414	1-216-295-00	CONDUCTOR, CHIP (2012)				
						(CDX-505RF: US, CND/EXCD-3RF)
FB414	1-500-445-21	INDUCTOR 0uH				
						(CDX-505RF: AEP, UK, G, E, TW)
		< IC >				
IC101	8-752-384-15	IC CXD2530Q				
IC201	8-759-054-12	IC PQ09RA1				
IC202	8-759-443-41	IC RH5VL40AA-T1C				
IC203	8-759-324-40	IC KIA7805PI				
IC204	8-759-444-86	IC BA8272F-E2				
IC301	8-759-040-83	IC BA6287F				
IC302	8-752-886-25	IC CXP84124-071Q				
IC401	8-759-327-78	IC TC9404FN-EL				
		< TRANSISTOR >				
Q201	8-729-016-83	TRANSISTOR 2SB1446				
Q202	8-729-901-00	TRANSISTOR DTC124EK				
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146				
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD				
Q301	8-729-020-67	TRANSISTOR XN1A312-TX				
Q401	8-729-901-00	TRANSISTOR DTC124EK				
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146				
Q403	8-729-015-39	TRANSISTOR DTC323TK				
Q404	8-729-015-39	TRANSISTOR DTC323TK				
		< RESISTOR >				
R101	1-216-119-00	METAL CHIP	820K	5%	1/10W	
R102	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R111	1-216-295-00	CONDUCTOR, CHIP (2012)				
R112	1-216-295-00	CONDUCTOR, CHIP (2012)				
R113	1-216-295-00	CONDUCTOR, CHIP (2012)				
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R202	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R203	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R204	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R207	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R208	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	
R301	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R303	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R304	1-216-089-00	METAL GLAZE	47K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R305	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R306	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R307	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R308	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R310	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R311	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R312	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R313	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R318	1-216-033-00	METAL CHIP	220	5%	1/10W	
R319	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R321	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R331	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R333	1-216-295-00	CONDUCTOR, CHIP (2012)				
R334	1-216-295-00	CONDUCTOR, CHIP (2012)				
R335	1-216-295-00	CONDUCTOR, CHIP (2012)				
R343	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R401	1-216-033-00	METAL CHIP	220	5%	1/10W	
R405	1-216-033-00	METAL CHIP	220	5%	1/10W	
R406	1-216-033-00	METAL CHIP	220	5%	1/10W	
R407	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R408	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R411	1-216-029-00	METAL CHIP	150	5%	1/10W	
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV301	1-223-834-11	RES, ADJ, CARBON 47K				
RV302	1-225-412-11	RES, VAR, SLIDE 10K (ELEVATOR LINER POSITION SENSOR)				
		< SWITCH >				
SW301	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)				
SW302	1-762-108-31	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)				
SW303	1-571-532-21	SWITCH, TACTIL (⏏)				
		< VIBRATOR >				
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X401	1-767-511-11	VIBRATOR, CERAMIC (16.930MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	
		< CONNECTOR >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	

RF **SW**

Ref. No.	Part No.	Description			Remark
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W
R26	1-216-845-11	METAL CHIP	100K	5%	1/16W
R27	1-216-295-00	CONDUCTOR, CHIP (2012)			
R28	1-216-295-00	CONDUCTOR, CHIP (2012)			
R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R32	1-216-837-11	METAL CHIP	22K	5%	1/16W
R33	1-216-158-00	METAL GLAZE	22	5%	1/8W
R34	1-216-855-11	METAL CHIP	680K	5%	1/16W
R35	1-216-835-11	METAL CHIP	15K	5%	1/16W
R36	1-216-836-11	METAL CHIP	18K	5%	1/16W
R37	1-216-851-11	METAL CHIP	330K	5%	1/16W
R38	1-216-837-11	METAL CHIP	22K	5%	1/16W
R39	1-216-847-11	METAL CHIP	150K	5%	1/16W
R40	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R41	1-216-839-11	METAL CHIP	33K	5%	1/16W
R42	1-216-851-11	METAL CHIP	330K	5%	1/16W
R43	1-216-849-11	METAL CHIP	220K	5%	1/16W
R44	1-216-846-11	METAL CHIP	120K	5%	1/16W
R45	1-216-837-11	METAL CHIP	22K	5%	1/16W
R46	1-216-847-11	METAL CHIP	150K	5%	1/16W
R47	1-216-834-11	METAL CHIP	12K	5%	1/16W
R48	1-216-845-11	METAL CHIP	100K	5%	1/16W
R49	1-216-101-00	METAL CHIP	150K	5%	1/10W
R50	1-216-845-11	METAL CHIP	100K	5%	1/16W
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W
R52	1-216-093-00	METAL CHIP	68K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-073-00	METAL CHIP	10K	5%	1/10W
R56	1-216-093-00	METAL CHIP	68K	5%	1/10W
R57	1-216-081-00	METAL CHIP	22K	5%	1/10W
R58	1-216-093-00	METAL CHIP	68K	5%	1/10W
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W
R60	1-216-073-00	METAL CHIP	10K	5%	1/10W
R61	1-216-073-00	METAL CHIP	10K	5%	1/10W
R62	1-216-085-00	METAL CHIP	33K	5%	1/10W
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV14	1-238-091-11	RES, ADJ, CERMET	22K		
		< SWITCH >			
SW11	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD IN)			
SW12	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD OUT)			
**********					
*	1-664-104-11	SW BOARD			
		********			
		< SWITCH >			
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)			

CDX-505RF/EXCD-3RF

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-505RF/EXCD-3RF
AEP Model
UK Model
E Model
CDX-505RF

SUPPLEMENT-3

File this supplement with the service manual.

Subject:
1. Correction
2. Mechanism Deck Modification (MG-250B-137)

(ENG-98001)

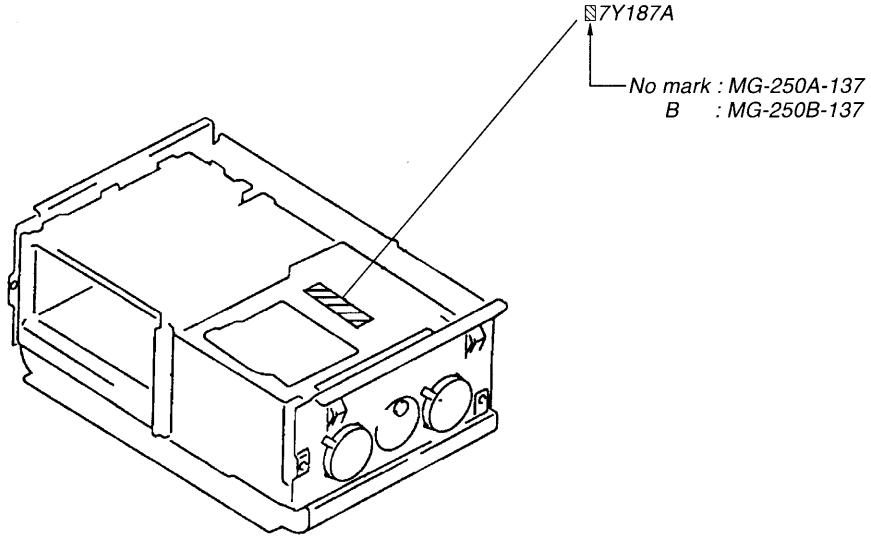
1. CORRECTION

Page	Incorrect				Correct			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
45	505	4-875-574-00	SHEET, PROTECTION			Not supplied		

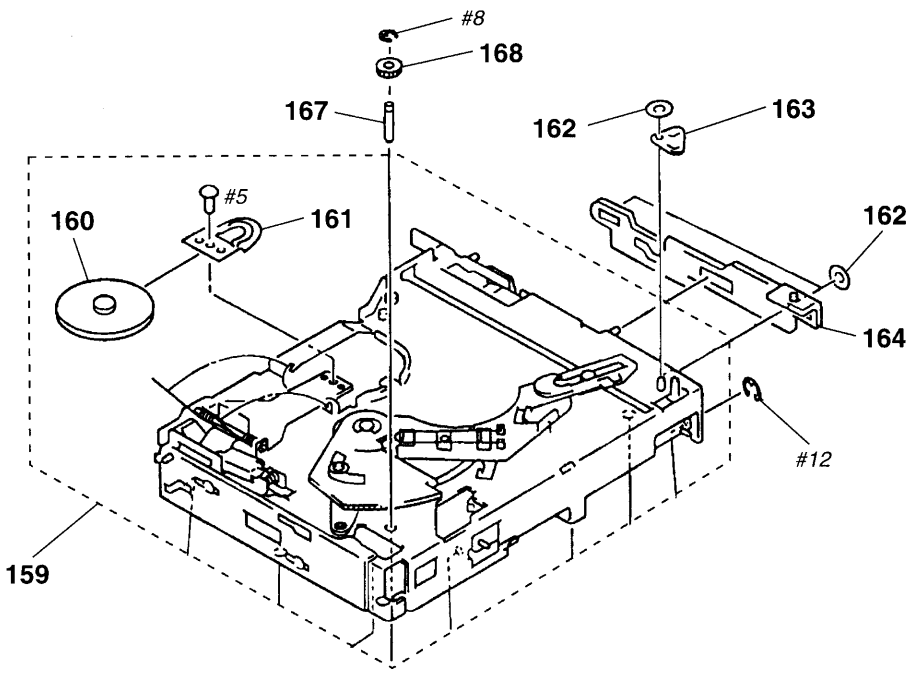
2. MECHANISM DECK MODIFICATION (MG-250B-137)

The mechanism deck was changed from MG-250A-137 to MG-250B-137,
This supplement contains only a difference parts.

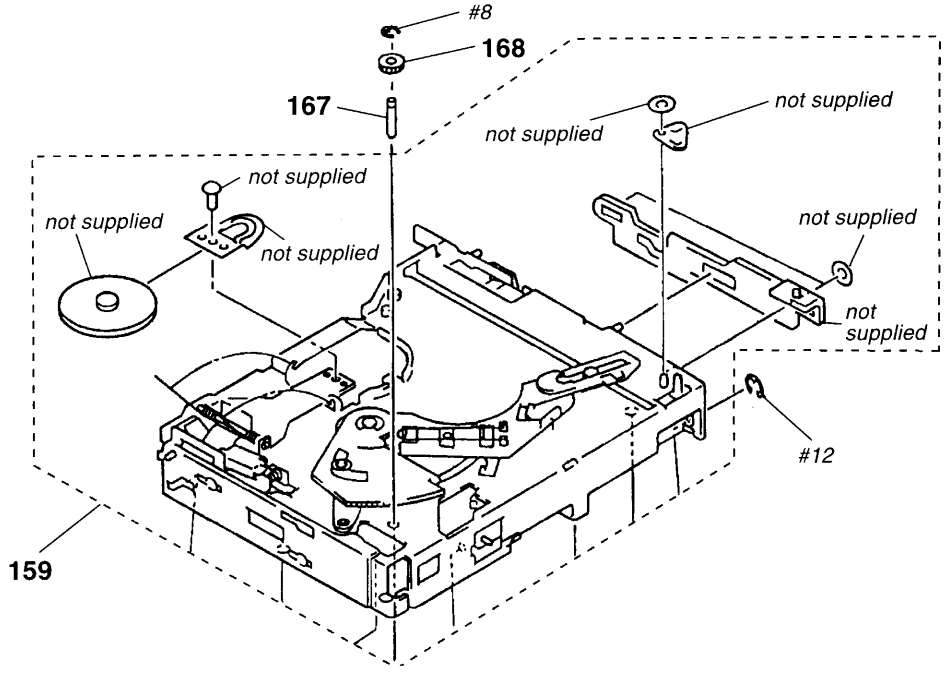
• New / Former Discrimination



• Difference Parts

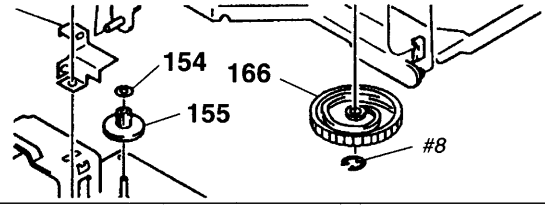
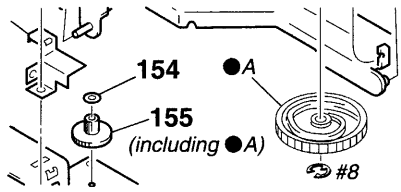
Page	Former (MG-250A-137)
38	

New (MG-250B-137)



Former (MG-250A-137)				New (MG-250B-137)			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)		159	A-3290-155-A	MAIN ASSY, CHASSIS (EVT)	
160	3-010-242-01	RETAINER (DISC)		160	———	———	
* 161	3-010-243-01	BRACKET (CP)		161	———	———	
162	3-736-073-01	SLIDER, POLYETHYLENE		162	———	———	
163	3-010-251-01	ARM (CONVERSION AB)		163	———	———	
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY		164	———	———	

• Items marked "*" are not stocked since they are seldom required for routine service.
Some delay should be anticipated when ordering these items.

Page	Former (MG-250A-137)				New (MG-250B-137)			
38								
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	155	3-010-248-01	GEAR (WORM LOAD 1)		155	X-3375-496-1	GEAR (L) ASSY	
	166	X-3373-552-1	GEAR (LOAD 1) ASSY		●A	included 155		
43	IC11	8-752-080-62	IC CXA1992AR		IC11	8-752-082-14	IC CXA1992BR	

MEMO

CDX-505RF/EXCD-3RF

SONY

SERVICE MANUAL

US Model
Canadian Model
CDX-505RF/EXCD-3RF
AEP Model
UK Model
E Model
CDX-505RF

SUPPLEMENT-4

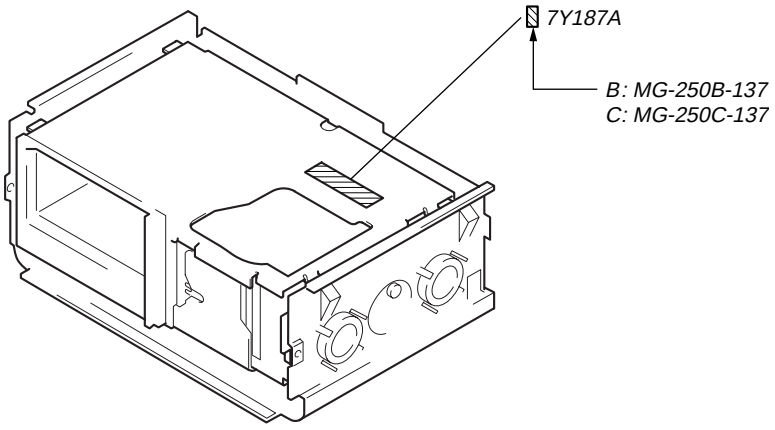
File this supplement with the service manual.

Subject: Mechanism Deck Modification (MG-250C-137)

(ENG-98014)

The mechanism deck was changed from MG-250B-137 to MG-250C-137.
At the same time, main and jack boards were been changed.
This supplement contains only a new type mechanism deck.

1. NEW/FORMER DISCRIMINATION



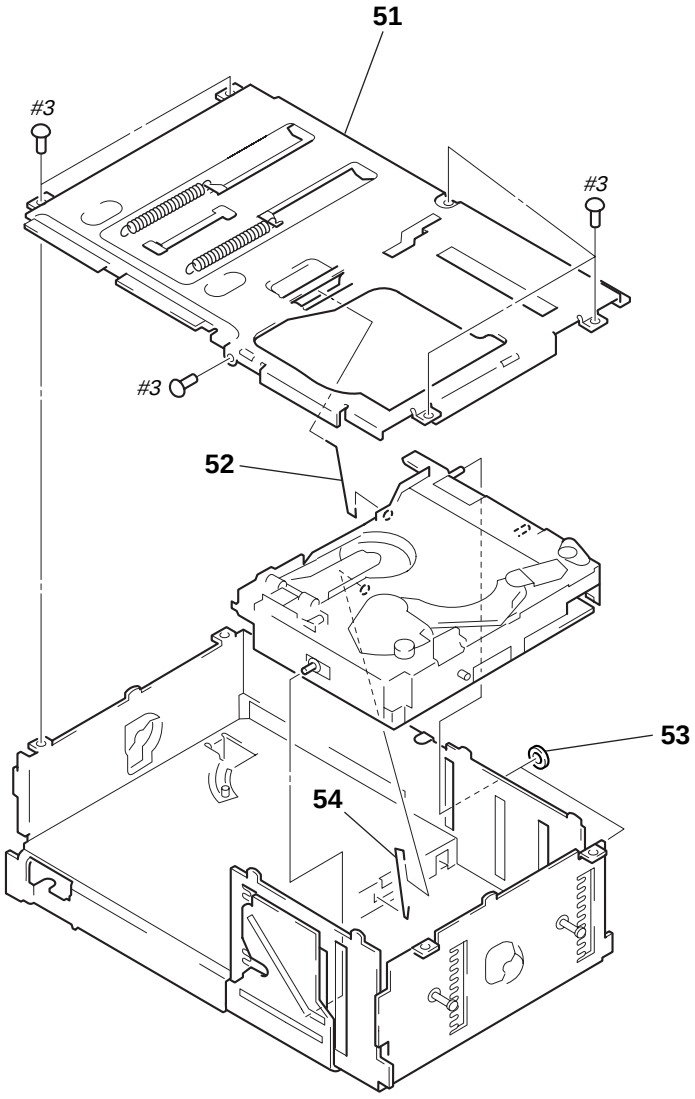
2. EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

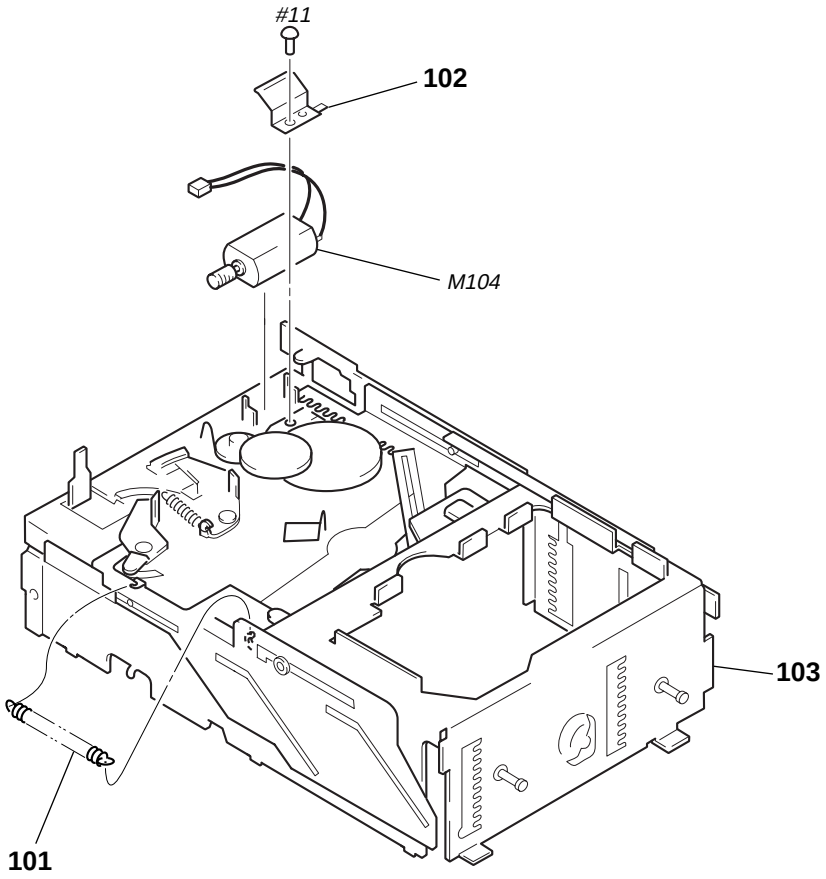
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(2) MECHANISM DECK SECTION-1 (MG-250C-137)



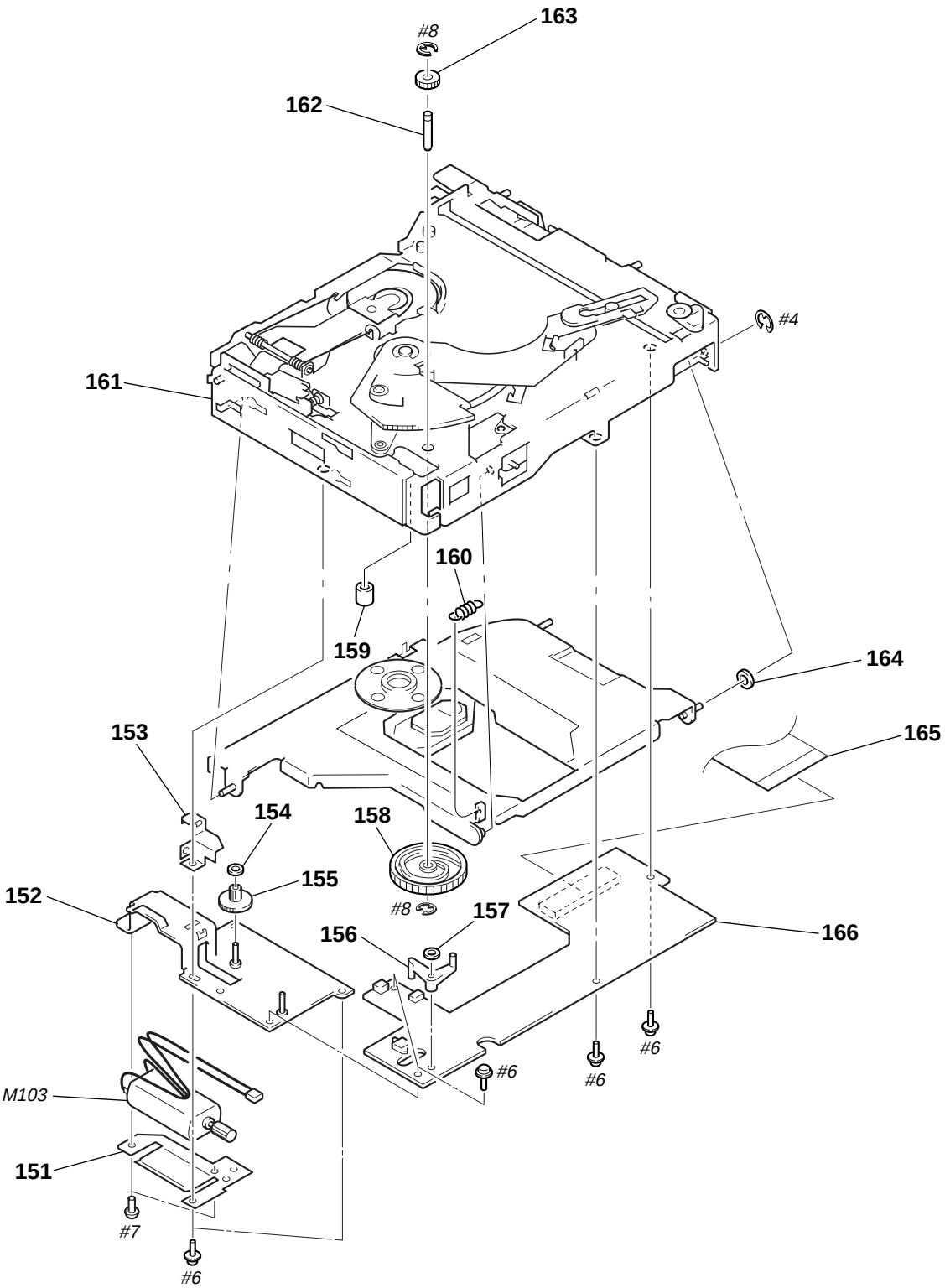
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3375-497-1	CHASSIS (U) SUB ASSY		53	4-965-759-01	WASHER, POLYETHYLENE	
52	3-024-161-01	SPRING (SUT)		54	3-011-997-01	SPRING (STOPPER. LOWER)	

(3) MECHANISM DECK SECTION-2 (MG-250C-137)



Ref. No.	Part No.	Description	Remark
101	3-024-170-01	SPRING (SB), TENSION	
* 102	3-024-172-01	BRACKET (EVM)	
103	X-3375-498-1	CHASSIS (D) SUB ASSY	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

(4) MECHANISM DECK SECTION-3 (MG-250C-137)



Ref. No.	Part No.	Description	Remark
* 151	3-024-150-01	RETAINER (CHM)	
* 152	X-3375-445-1	BRACKET (CHM) ASSY	
153	3-010-270-01	COVER (CHM)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-017-139-01	GEAR (WORM LOAD A)	
156	3-010-255-01	ARM (LSW)	
157	3-573-936-00	STOPPER, REEL	
158	X-3373-552-1	GEAR (LOAD 1) ASSY	
159	3-010-252-01	ROLLER (CRE)	
160	3-010-268-01	SPRING (DH), TENSION	
* 161	A-3290-194-D	CHASSIS (EVY) (MAIN) ASSY	
162	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
163	3-010-253-01	GEAR (LOMINI)	
164	3-701-438-11	WASHER, 2.5	
165	1-664-627-11	MAIN FLEXIBLE BOARD	
* 166	A-3313-586-A	RF BOARD, COMPLETE	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

Continued on page 13.

3. PRINTED WIRING BOARDS – MAIN Section –

- **Semiconductor Location**

Ref. No.	Location
D201	D-10
D202	D-10
D203	F-11
D204	F-11
D205	F-10
D206	F-10
D207	F-9
D301	H-13
D311	G-11
D501	H-12
D502	G-12
D503	G-12
D504	G-12
D505	H-12
IC101	D-15
IC201	F-25
IC202	I-13
IC203	E-25
IC204	G-12
IC301	G-11
IC302	H-14
IC401	D-13
Q201	E-25
Q202	C-10
Q203	F-11
Q204	H-12
Q205	F-10
Q301	G-15
Q401	E-12
Q402	E-12
Q403	D-11
Q404	D-11

Note on Printed Wiring Board:

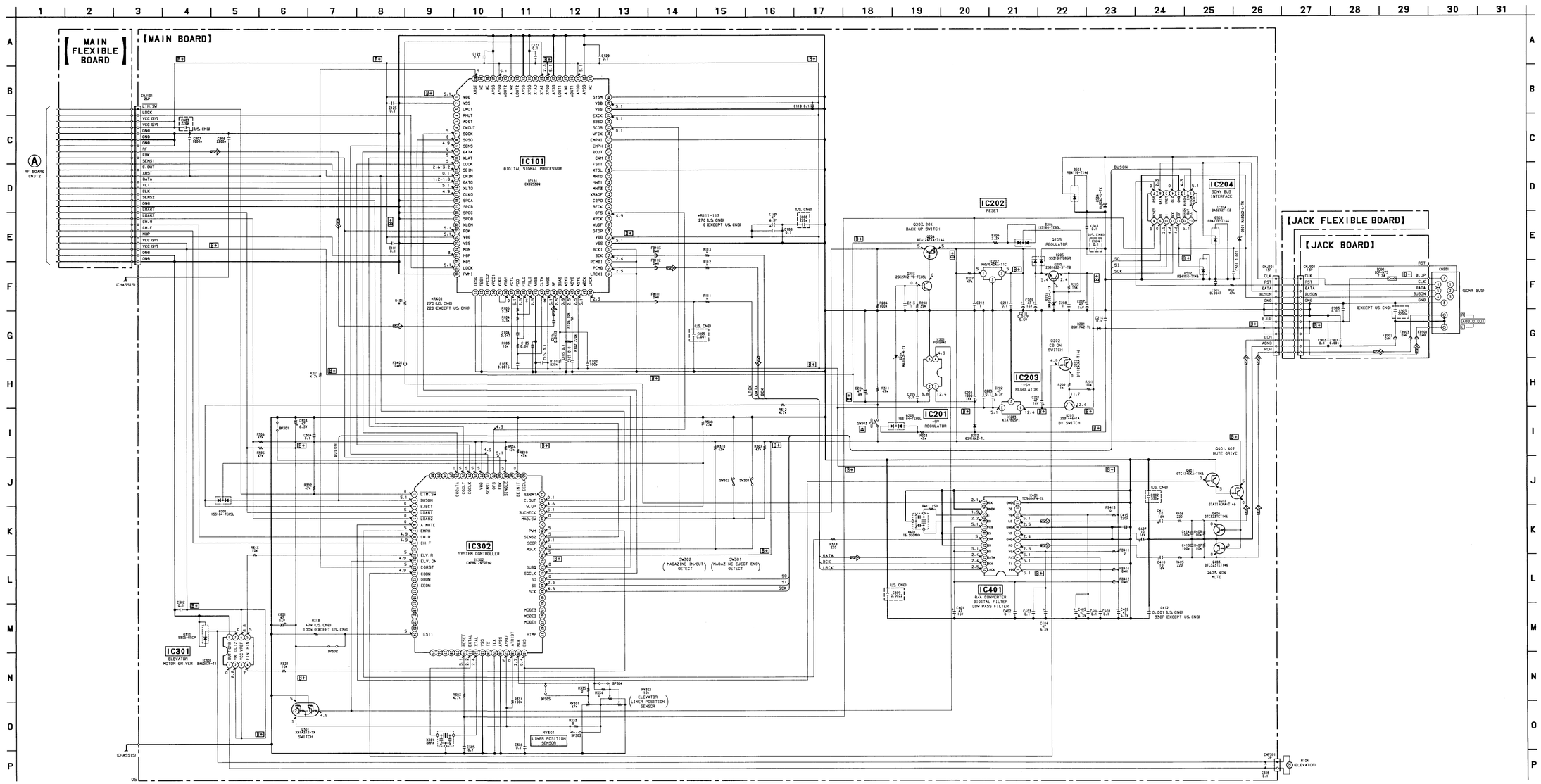
- ——— : parts extracted from the conductor side.
- ■ : Parts mounted on the conductor side.
- ● : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian

4. SCHEMATIC DIAGRAM – MAIN Section –

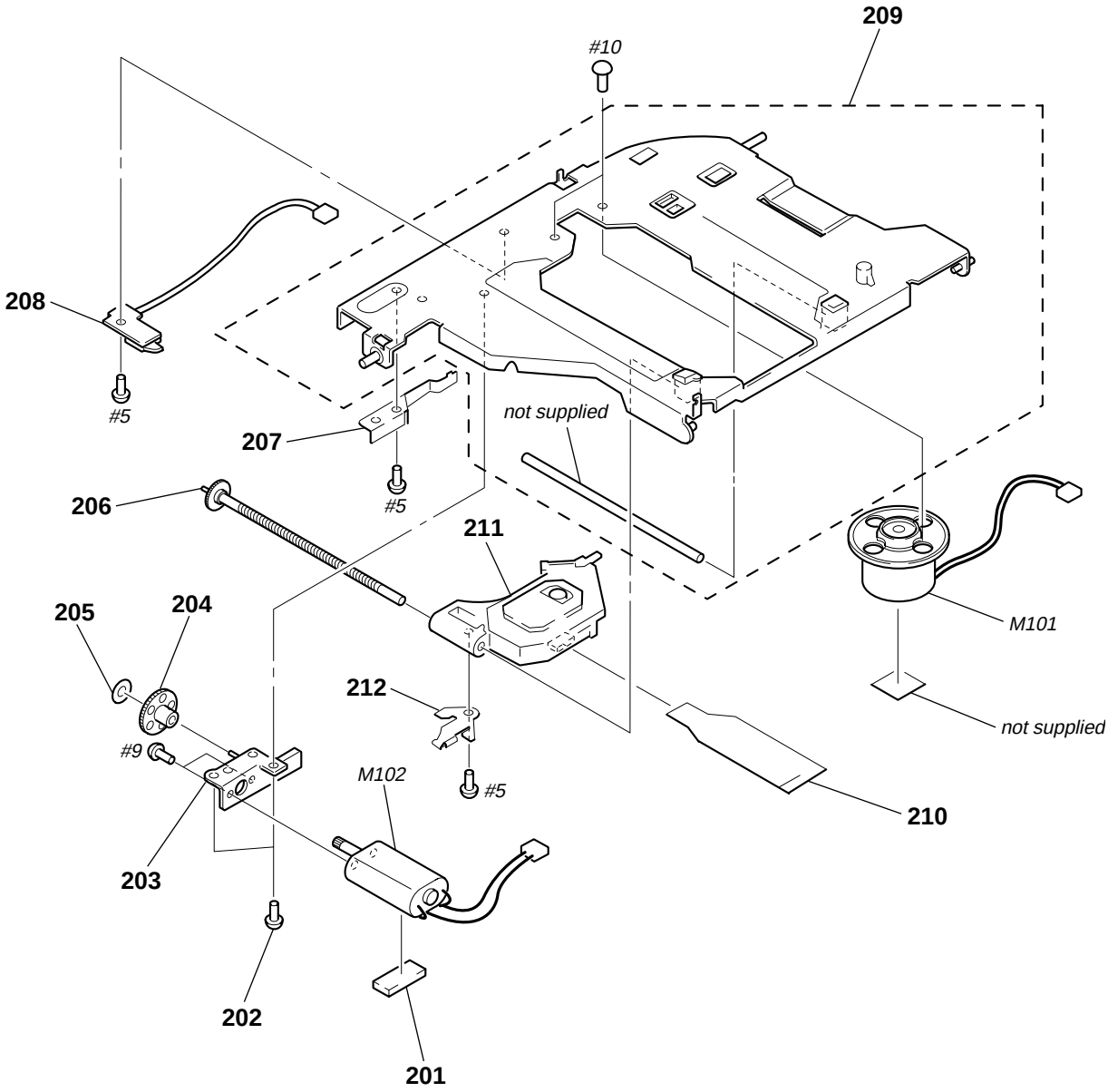


Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4 V and fed front CD changer controller.
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : CD
- Abbreviation
  CND : Canadian

Continued from page 4.

(5) MECHANISM DECK SECTION-4 (MG-250C-137)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	3-911-215-02	SHEET (LEAD RETAINER)	
202	3-920-362-01	SCREW (ESCUTCHEON)	
203	X-3373-229-1	BASE (SLED) ASSY	
204	3-010-258-01	GEAR (SLED MID)	
205	3-573-936-00	STOPPER, REEL	
206	A-3291-958-A	SHAFT (SLED) ASSY	
207	3-010-263-01	DETENT (SHAFT THRUST)	

Ref. No.	Part No.	Description	Remark
* 208	1-664-104-11	SW BOARD	
* 209	A-3301-077-A	BASE (OPT) (J) ASSY	
210	1-664-626-11	OP FLEXIBLE BOARD	
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
212	3-010-262-01	DETENT (SLED)	
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

JACK **MAIN**

5. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-664-631-15	JACK BOARD			
		**********			
		< CAPACITOR >			
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C905	1-162-302-11	CERAMIC	0.0022uF	30%	16V
			(AEP, UK, German, E, Taiwan)		
		< CONNECTOR >			
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS, AUDIO OUT)			
					(CDX-505RF)
CN901	1-779-077-21	PLUG, CONNECTOR (SONY BUS, AUDIO OUT)			
					(EXCD-3RF)
CNJ901	1-778-775-21	CONNECTOR, FPC 13P			
		< FERRITE BEAD >			
FB901	1-500-445-21	FERRITE	0uH		
FB902	1-500-445-21	FERRITE	0uH		
FB903	1-500-445-21	FERRITE	0uH		
		< IC LINK >			
IC901	1-532-686-21	LINK, IC			
**********					
*	A-3313-977-A	MAIN BOARD, COMPLETE			
			(AEP, UK, German, E, Taiwan)		
*	A-3313-983-A	MAIN BOARD, COMPLETE (US, Canadian)			
		**********			
*	3-016-116-01	TAPE (D), MOUNT (US, Canadian)			
*	3-022-694-01	HOLDER (TR3)			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C104	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C106	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C107	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-126-513-11	ELECT	47uF	20%	6.3V
C110	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C123	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C124	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C125	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-124-589-11	ELECT	47uF	20%	16V
C202	1-126-513-11	ELECT	47uF	20%	6.3V
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C204	1-115-466-11	ELECT	1000uF	20%	16V
C205	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C206	1-124-589-11	ELECT	47uF	20%	16V
C207	1-124-589-11	ELECT	47uF	20%	16V
C208	1-164-346-11	CERAMIC CHIP	1uF		16V
C209	1-124-589-11	ELECT	47uF	20%	16V
C210	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C211	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C212	1-164-346-11	CERAMIC CHIP	1uF		16V
C213	1-164-346-11	CERAMIC CHIP	1uF		16V
C214	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-126-513-11	ELECT	47uF	20%	6.3V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C401	1-124-589-11	ELECT	47uF	20%	16V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C404	1-126-513-11	ELECT	47uF	20%	6.3V
C405	1-126-513-11	ELECT	47uF	20%	6.3V
C406	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C409	1-126-513-11	ELECT	47uF	20%	6.3V
C410	1-126-157-11	ELECT	10uF	20%	16V
C411	1-126-157-11	ELECT	10uF	20%	16V
C412	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
					(US, Canadian)
C412	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
			(AEP, UK, German, E, Taiwan)		
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C415	1-163-259-00	CERAMIC CHIP	220PF	5%	50V

Ref. No.	Part No.	Description			Remark
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C502	1-163-029-11	CERAMIC CHIP	0.0047uF		50V
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C801	1-104-823-11	TANTAL. CHIP	47uF	20%	16V
C802	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (US, Canadian)
C803	1-163-259-00	CERAMIC CHIP	220PF	5%	50V (US, Canadian)
C804	1-163-038-00	CERAMIC CHIP	0.1uF		25V (US, Canadian)
C805	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (US, Canadian)
C806	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C807	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C808	1-162-286-21	CERAMIC	220PF	10%	50V (US, Canadian)
C809	1-162-302-11	CERAMIC	0.0022uF	30%	16V (US, Canadian)
		< CONNECTOR >			
CNJ101	1-770-351-11	CONNECTOR, FPC 26P			
CNJ201	1-770-350-21	CONNECTOR, FPC 13P			
CNP301	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D201	8-719-210-33	DIODE EC10DS2			
D202	8-719-210-33	DIODE EC10DS2			
D203	8-719-801-78	DIODE 1SS184			
D204	8-719-422-64	DIODE MA8062-M			
D205	8-719-038-48	DIODE 1SS319 (TE85R)			
D206	8-719-801-78	DIODE 1SS184			
D207	8-719-422-62	DIODE MA8062-L-TX			
D301	8-719-801-78	DIODE 1SS184			
D311	8-719-938-75	DIODE SB05-05CP			
D501	8-719-422-62	DIODE MA8062-L-TX			
D502	8-719-975-40	DIODE RB411D			
D503	8-719-975-40	DIODE RB411D			
D504	8-719-422-62	DIODE MA8062-L-TX			
D505	8-719-975-40	DIODE RB411D			
		< FERRITE BEAD >			
FB101	1-500-445-21	FERRITE	0uH		
FB102	1-500-445-21	FERRITE	0uH		
FB103	1-500-445-21	FERRITE	0uH		
FB401	1-500-445-21	FERRITE	0uH		
FB411	1-216-295-00	SHORT	0		
FB412	1-216-295-00	SHORT	0 (US, Canadian)		
FB412	1-500-445-21	FERRITE	0uH (AEP, UK, German, E, Taiwan)		
FB413	1-216-295-00	SHORT	0		
FB414	1-216-295-00	SHORT	0 (US, Canadian)		
FB414	1-500-445-21	FERRITE	0uH (AEP, UK, German, E, Taiwan)		
		< IC >			
IC101	8-752-384-15	IC CXD2530Q			
IC201	8-759-054-12	IC PQ09RA1			
IC202	8-759-443-41	IC RH5VL40AA-T1C			
IC203	8-759-324-40	IC KIA7805PI			
IC204	8-759-444-86	IC BA8272F-E2			

Ref. No.	Part No.	Description			Remark
IC301	8-759-040-83	IC BA6287F			
IC302	8-752-898-75	IC CXP84124-078Q			
IC401	8-759-494-78	IC TC9464FN-EL			
		< TRANSISTOR >			
Q201	8-729-016-83	TRANSISTOR 2SB1446			
Q202	8-729-901-00	TRANSISTOR DTC124EK			
Q203	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q204	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q205	8-729-822-05	TRANSISTOR 2SD1622-ST-TD			
Q301	8-729-020-67	TRANSISTOR XN1A312-TX			
Q401	8-729-901-00	TRANSISTOR DTC124EK			
Q402	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q403	8-729-015-39	TRANSISTOR DTC323TK			
Q404	8-729-015-39	TRANSISTOR DTC323TK			
		< RESISTOR >			
R101	1-216-119-00	METAL CHIP	820K	5%	1/10W
R102	1-216-105-00	RES, CHIP	220K	5%	1/10W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-035-00	METAL CHIP	270	5%	1/10W (US, Canadian)
R111	1-216-295-00	SHORT	0 (AEP, UK, German, E, Taiwan)		
R112	1-216-035-00	METAL CHIP	270	5%	1/10W (US, Canadian)
R112	1-216-295-00	SHORT	0 (AEP, UK, German, E, Taiwan)		
R113	1-216-035-00	METAL CHIP	270	5%	1/10W (US, Canadian)
R113	1-216-295-00	SHORT	0 (AEP, UK, German, E, Taiwan)		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-216-049-11	RES, CHIP	1K	5%	1/10W
R203	1-216-089-00	RES, CHIP	47K	5%	1/10W
R204	1-216-097-00	RES, CHIP	100K	5%	1/10W
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R207	1-216-089-00	RES, CHIP	47K	5%	1/10W
R208	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R301	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R302	1-216-089-00	RES, CHIP	47K	5%	1/10W
R303	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R304	1-216-089-00	RES, CHIP	47K	5%	1/10W
R305	1-216-089-00	RES, CHIP	47K	5%	1/10W
R306	1-216-089-00	RES, CHIP	47K	5%	1/10W
R307	1-216-089-00	RES, CHIP	47K	5%	1/10W
R308	1-216-089-00	RES, CHIP	47K	5%	1/10W
R310	1-216-089-00	RES, CHIP	47K	5%	1/10W
R311	1-216-089-00	RES, CHIP	47K	5%	1/10W
R312	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R313	1-216-089-00	RES, CHIP	47K	5%	1/10W (US, Canadian)
R313	1-216-097-00	RES, CHIP	100K	5%	1/10W (AEP, UK, German, E, Taiwan)
R318	1-216-033-00	METAL CHIP	220	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R319	1-216-089-00	RES, CHIP	47K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
R331	1-216-097-00	RES, CHIP	100K	5%	1/10W
R333	1-216-295-00	SHORT	0		
R334	1-216-295-00	SHORT	0		
R335	1-216-295-00	SHORT	0		
R343	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
			(AEP, UK, German, E, Taiwan)		
R401	1-216-035-00	METAL CHIP	270	5%	1/10W
					(US, Canadian)
R405	1-216-033-00	METAL CHIP	220	5%	1/10W
R406	1-216-033-00	METAL CHIP	220	5%	1/10W
R407	1-216-097-00	RES, CHIP	100K	5%	1/10W
R408	1-216-097-00	RES, CHIP	100K	5%	1/10W
R411	1-216-029-00	METAL CHIP	150	5%	1/10W
R501	1-216-089-00	RES, CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-223-834-11	RES, ADJ, CARBON 47K			
RV302	1-225-412-11	RES, VAR SLIDE 10K			
		(ELEVATOR LINER POSITION SENSOR)			
		< SWITCH >			
SW301	1-762-108-31	SWITCH, PUSH (1 KEY)			
		(MAGAZINE EJECT END DETECT)			
SW302	1-762-108-31	SWITCH, PUSH (1 KEY)			
		(MAGAZINE IN/OUT DETECT)			
SW303	1-571-532-21	SWITCH, TACTIL (⏏)			
		< VIBRATOR >			
X301	1-767-261-21	VIBRATOR, CERAMIC (8MHz)			
X401	1-767-511-11	VIBRATOR, CERAMIC (16.930MHz)			
**********					
		MISCELLANEOUS			
		**********			
165	1-664-627-11	MAIN FLEXIBLE BOARD			
210	1-664-626-11	OP FLEXIBLE BOARD			
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP			
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE			
M102	A-3291-955-A	MOTOR SUB ASSY, SLED			
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)			
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)			
**********					
		**********			
		HARDWARE LIST			
		**********			
#3	7-685-781-09	SCREW +PTT 2X4 (S)			
#4	7-624-104-04	STOP RING 2.0, TYPE-E			
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2			
#6	7-628-253-00	SCREW +PS 2X4			
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5			
#8	7-624-102-04	STOP RING 1.5, TYPE-E			
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3			
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE3			
#11	7-685-780-09	SCREW +PTT 2X3 (S)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.08	Correction-1, Correction-2 are included.
1.0	1998.08	Supplement-4
	1998.04	Correction-2
	1998.02	Supplement-3
	1997.07	Supplement-2
	1997.04	Supplement-1
	1997.03	Correction-1
	1997.01	New